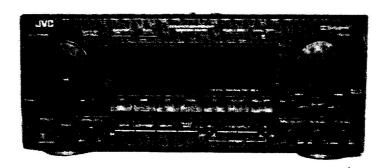
JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

DX-MX90BK CA-MX90BK (UNIT No. AX-MX90BK)



* For instruction manual, please refer to the CA-MX90BK(SM.NO.20267) or DX-MX90BK(SM.NO.20268).

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Safety Precautions -

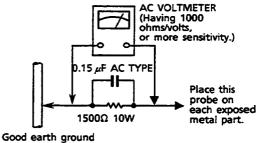
- 1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (\(\Delta\)) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage currnet check (Electrical shock hazard testing)
 After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
 - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester",
 measure the leakage current from each exposed metal parts of the cabinet, particularly
 any exposed metal part having a return path to the chassis, to a known good earth
 ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
 - Alternate check method Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a

known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Do not use a line isolation transformer during this check.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



- Warning -

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

Technical Explanations

AV Compu Link

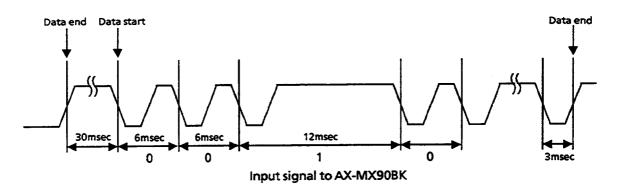
1 Description

AV Compu Link is a system to simplify A/V equipment operation that has been complicated and troublesome with systematization of A/V components. Take note that A/V Compu Link system is different from conventional "COMPU LINK-1" and "AV control" systems employed in some of video equipment. So,do not use "COMPU LINK-1 SYNCHRO" terminals and ordinary AV control terminal for connection.

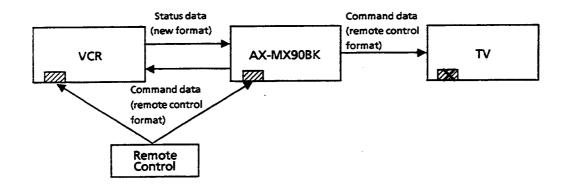
- 2. Signal of AV Compu Link
- (1) Status information (new format) AX-MX90BK receives necessary data about change in state from VCR as input of status information. Input data is composed of 8 bits of which upper 3 bits are for equipment code and lower 5 bits are for status information. On the other hand, AX-MX90BK outputs command data to VCR and TV through

remote control cord (JVC standard).

(2) Specifications of status signal See the figures below.



- 1) Transmission of new data is started (Data start) more than 30 msec after the rise of previous Data end.
- 2) Data 0 : 6 msec Data 1 : 12 msec
- 3) End of data (DATA END) is at the rise of the 9th pulse.



Note: Take note that TV's remote sensor is inactivated when the AV Compu Link terminal is in connection, and the TV is controlled by signal that amplifier recives.

■ Air-cooling Fan

1. Outline

By using an air blower with a motor in the AX-MX90BK, the heat sink has been made smaller and high power has been achieved in a compact format. The air blower rotates with a 2-step speed acording to the music signal level. The rise of the temperature in the heat sink is detected by a thermistor, and if the temperature becomes abnomal, the speaker relay is switched off.

2. Operation principal

The music signal level detected by the A/D converter (IC906) is input to the microcomputer, and the fan motor is driven with a 2-step speed according to that signal level. The temperature of the heat sink is detected by the resistance value of the thermistor (SR500), and is input to the A/D converter (IC906).

3. Fan operation (standard value)

- The fan rotats at low speed when the speaker output continues for 1 minute or more (continuously more than 4V or at a music peak above 10V).
- The fan rotats at high speed when the condition of ① continues for more than 1 minute.
- When the signal ditection is turned off while the fan is rotating, the fan will be stopped after 1 minute.
- The fan rotates at low speed when the thermistor temperature becomes 80 degrees.
- The fan rotates at high speed when the temperature keeps 80 degrees for 1 minute or more.
- When condition ② continues, the rotation is stopped for 7 Seconds after 30 minutes and, thereafter, high speed rotation will continue.

■ Check of Fan Motor Rotation

- ① Short-circuit between collector and emitter of Q507.
- Short-circuit between collector and emitter of Q506.

Disassembly Procedures

■ Removing the Top Cover

- 1. Remove the screw on each side and the 4 screws on the rear side.
- 2. Pull the top cover slightly backward and lift it while spreading the backs of the left and right sides to remove it.

■ Removing the Front Panel

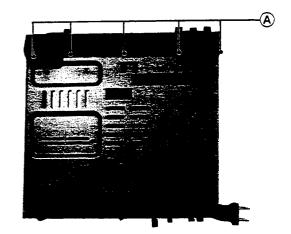
- 1. Remove the top cover.
- 2. Remove the 4 small volume knobs and main volume knob.
- 3. Remove the nat fixing a shaft of main volume to front panel.
- 4. Remove 5 screws (a) fixing bottom of the front panel.

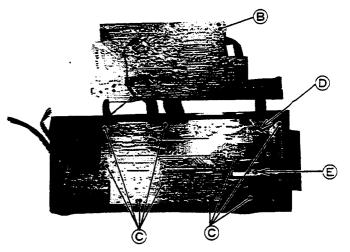
■ Removing the Front P.C.Board

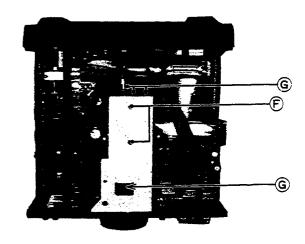
- 1. Remove the front panel.
- 2. Remove the JOG dial knob.
- 3. Remove the 3 hooks fixing upper side circuit board (a), then lift thee circuit board up.
- 4. Remove the 10 screws © fixing lower side circuit board ® and 1 screw ® fixing small circuit board.

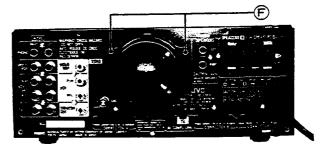
■ Removing the Front P.C.Board

- 1. Remove the top cover.
- 2. Remove the 4 screws 🕒 fixing the bracket.
- 3. Remove the 4 screws © fixing the heat sink.
- 4. Pull out the heat sink assembly from main P.C.Board.



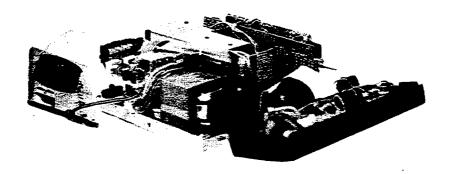






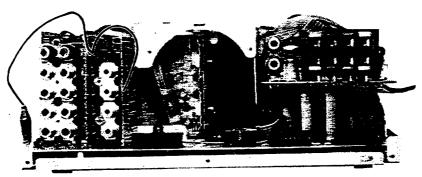
Mini Suggestion For Inspection With Active Power

- ① Remove the front panel.
- Remove the rear panel.
 - \circ Condition after the above procedure 1 through 2 is shown in below.



O For grounding to the chassis:

Connect the grounds of the AUDIO pin jack and the VIDEO pin jack with each other, and ground the both grounds to the bottom chassis since the audio and video systems are grounded from the respective grounds of the pin jacks to the bottom cover through the rear panel.



- When AUDIO output is abnormal with the SOURCE DIRECT set to ON, it is recommended to remove the DAP circuit board temporarily for checkup.
- For checkup of the AUDIO system, it is recommended to remove the VIDEO circuit board temporarily.
 However, don't remove the VIDEO circuit board for checkup the Dolby surround effect since the DOLBY IC is installed on the circuit board.

Description of Major LSIs ■ MN171202JPA (IC904): System Controller

1. Terminal Layout

VDD	1	\sim	64	OSC 1
NC	2		63	OSC 2
TA IND	3		62	VSS
TU IND	4		61	X2
CD IND	5		60	X1
PH IND	6		59	ACC
TV IND	7		58	P.OFF
VCR IND	8		57	FLOFF
VID IND	9		56	SEATNH
TV.V IND	10		55	DSP RST
VCR.V IND	11		54	SEA RST
VID.V IND	12		53	S MUTE
S.DIR IND	13		52	AV VTR IN
NC	14	MN171202JPA	51	AV VTR OUT
SPO	15		50	AV TV OUT
SDO	16		49	AV TV CONT
BS.REC	17		48	DCS IN
VPP	18		47	NC
STAN IND	19		46	INR
NC	20.		45	RMIN
NC	21		44	PROT
NC	22		43	RESET
KO 0	23		42	DATA
KO 1	24		41	H. PHONE
KO 2	25		40	CDX
NC	26		39	STB. O
KI 0	27		38	V. OUT 2
KI 1	28		37	V. OUT 1
KI 2	29		36	S.DCS
KI 3	30		35	V/R-M
PF0	31		34	SEG 15
PF1	32		33	SEG 14

2. Key matrix

			T		
i	KI-0 KI-1		KI-2	Ki-3	
ко-0	POWER	S.DIRECT	•	-	
KO-1	•	τv	VCR/DAT	VIDEO/VDP	
KO-2	TUNER	TAPE	СО	PHONO	

VO.	symbol	1/0	Functions	NO.	symbol	8	Functions
1	VDD	-	Power supply (+5V)	33	SEG 14	-	Pull up
$\frac{1}{2}$	NC	0		34	SEG 15	-	4
3	TAPE IND		Indicator control signal output	35	V/R;M	0	REC MUTE signal output
4	TUNER IND	0	*	36	S.DCS	0	
5	CD IND	ō	*	37	V.OUT 1	0	Video output control
6	PHONO IND	ō	,	38	V.OUT 2	0	*
-7 -1	TV IND	ō	4	39	STB. O		Strobe signal output to IC510
8	VCR IND	6	,	40	CLK	0	Serial clock output to IC510
9	VIDEO IND	6	,	41	H.PHONE		Head phone control signal output
10	TV.V IND	6	,	42	DATA	0	Serial data output to IC510
11	VCR.V IND	0	,	43	RESET	T	Reset signal input
12	VIDEO,V IND	6	,	44	PROT	Ι	
13	S.DIR IND	ō	,	45	RUNTIN	T	Remote control signal input
14	NC	ि		46	INH	I	Inhibit signal input
15	SPO		Speaker output control	47	NC	1	
16	SDO	lõ	Control signal output to IC503	48	DCS IN	1	Compu-link signal input
17	BS.REC		BS recording control output	49	AV.TV CONT		Control the remote signal to TV
18	VPP	+-		50	AV.TV OUT		AV Compulink signal output for TV
19	STANDBY IND	10	Indicator control signal output	51	AV.VTR OUT		AV Compu-link signal output for VIR
20	NC NC	tõ		52	AV.VTR IN	T	AV Compu-link signal input for VTR
21	NC NC	tö		53	S.MUTE	0	Muting signal output
22	NC	िं		54	SEA.RST	0	Reset signal output
23	KOO	tŏ	Key matrix output	55	DSP.RST	0	Reset signal output to IC650
24	KO 1	tö	*	56	SEA INH		Inhibit signal output
25	K02	lŏ	4	57	FL OFF	0	FL indication control output
26	NC NC	۱ŏ		58	P.OFF	0	Power off signal output
27	KI O	Ť	Key matrix input	59	ACC	0	Power supply control output
28	KI 1	ti	4	60	X1	Œ	Connect to ground
29	KI2	1	4	61	X2	=	Non connection
30	KI3	ti	•	62	vss	Τ=	Connect to ground
31	PF 0	 :	Connect to ground	63	OSC2	0	Output of Xtal oscillation circuit
32	PF 1	+:	7	64	OSC1	T	Input to Xtal oscillation circuit

■ MN171202JPB (IC900): FL & System controller

1. Terminal Layout

OSC 1 OSC 2 VSS X2 X1 D C B A KEY IN 3 KEY IN 1 KEY IN 0 CSRPIND VOL IND VOL IND VOL UP DCS IN INH REMOCON IN P.OFF RESET SDATA OUT SOLT OUT \$12 \$13 \$14 \$15 \$15 \$17 \$18 \$19 \$20 \$21 \$22 \$23 \$24 \$25 \$24 \$25 \$24 MN171202JPB STB CE DSP-B DSP-R CS.I SH4 SH3

2. Key matrix

	KI-0	Ki-1	KI-2	Ki-3
Y0	UP	CSRP	F.SELECT	DISPLAY
Y1	>	SEA	4	PRESET
Y2	DEMO	DAP	DOWN	MEMORY

3. Pin Functions

NO.	symbol	IVO	Functions	NO.	symbol	3	Functions
1	VDD	-	Power supply (+5V)	33	SH3	1	JOG/SHUTTLE signal input
2	S1	0	FL segment control output	34	SH4	1	*
3	52	ō	4	35	C21	0	Connect to ground
4	53	ō	4	36	DSP-R	0	DSP-R signal output to IC650
5	<u>\$4</u>	0	4	37	DSP-B	0	DSP-B signal output to IC650
6	\$5	ō	4	38	CE	0	Chip enable signal output to IC906
7	<u>56</u>	ō	4	39	STB		Strobe signal output to IC905
8	57	6	4	40	SCLK OUT	0	Serial clock output to IC605,905,906
9	S8	ō	4	41	SDATA IN		Serial data input from IC906
10		6	4	42	SDATA OUT	0	Serial data output to IC605,905,906
11	S10	ŏ	4	43	RESET	1	Reset signal input
12	\$11	ō	4	44	P.OFF	П	Power off signal input from IC904
13	S12	ō	4	45	REMOCON IN	Т	Remote control signal input
14	\$13	0		46	INH		Inhibit signal input
15	\$14	0	"	47	DCSIN	ı	Compulink signal input
16	\$15	0	"	48	VOLUP	I	Volume control signal output
17	\$16	0	"	49	VOLDOWN	0	4
18	-Vdisp	-	Power supply for FL display	50	VOLIND	0	Volume indicator control output
19	\$17	0	FL segment control output	51	AI IND	0	Al indicator control output
20	S18	0	4	52	KEY INO	1	Key matrix input
21	S19	0	,	53	KEY IN1	0	•
22	S20	ि	*	54	KEY IN2	0	,
23	S21	0	,	55	KEY IN3	0	*
24	S22	0	*	56	А	0	FL grid control output
25	523	0	,	57	В	0	,
26	524	0	4	58	С	0	,
27	\$25	T	1	59	D	0	•
28	\$26	T	1	60	X1	<u> -</u>	Connect to ground
29	J1	T	JOG/SHUTTLE signal input	61	X2	_	Non connection
30	J2	ī	4	62	Vss	=	Connect to ground
31	SH1	1	4	63	OSC 2	0	Output of Xtaloscillation circuit
32	SH2	T	*	64	OSC 1	1	Input to Xtal oscillation circuit

■ MN17581JNR (IC650): DSP Controller

1. Terminal Layout

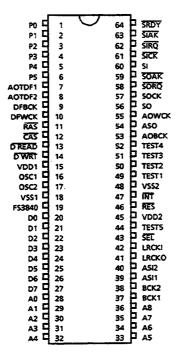
1				3
_V _{DD}	1		64	OSC 1
TCIB	2		63	QSC 2
INH	3		62	vss
REQ IN	4		61	X2
REQ IN	5		60	<u>X1</u>
BUSY	6		59	SYNC
	7		58	RESET
	8		57	D.SOT OUT
D.RES	9		56	INH
D.SRDY	10		55	D.SCK OUT
D.SIRQ	11		54	SDT OUT
DOLBY	12		53	SDT IN
D.MUTE	13		52	SCX IN
RMUTE	14	MN17581JNR	51	D.SCK IN
P.ENG1	15		50	PBO
P.ENG2	16		49	
Œ	17		48	ŀ
SPK OUT	18		47	
	19		46	
	20		45	EXPS
D0	21		44	A15
D1	22		43	A14
02	23		42	A13
D3	24		41	A12
D4	25		40	A11
DS	26		39	A10
D6	27		38	A9
D7	28		37	A8
AO	29		36	A7
A1	30		35	A6
A2	31		34	AS
A3	32		33	A4

_	-	_	ection:	_
,			α	

NO.	symbol	NO	Functions	NO.	symbol	ľΟ	Functions
1	VDD	-	Power supply (+5V)	33	A4	T	P-ROM Add output
2	TCIB	0	Connect to ground	34	A5	1	*
3	INH	0	Inhibit signal input	35	A6	0	*
4	REQ IN	0	DSP-R signal input from IC900	36	A7	0	*
5	REQ IN	0	4	37	A8	0	*
6	BUSY	0	DSP-B signal output to IC900	38	A\$	0	4
7		0	Not used	39	A10	0	*
8		0	•	40	A11	0	*
9	D.RES	0	Reset signal output to IC651	41	A12	0	+
10	D.SRDY	0	SRDY signal output to IC651	42	A13	0	•
11	D.SIRQ	0	SIRQ signal output to IC651	43	A14	1	•
12	DOLBY	0	Dolby control signal output	44	A15		•
13	D.MUTE	0	Mute signal output	45	EXPS	Ī	Pull up
14	R.MUTE	0	4	46		1	Not used
15	P.ENG1	0	Fan control signal output	47		1	*
16	P.ENG2	0	4	48			*
17	Œ	0	CE signal output to IC659	49		0	4
18	SPK OUT	-	Speaker out control signal input	50	PBO	0	Pull up
19		0	Not used	51	D.SCK IN	0	Clock signal input from IC651
20		0	*	52	SCK IN	1	Clock signal input from IC900
21	D0	0	P-ROM data input	53	SDT IN	0	Data signal input from IC900
22	D1	0	v	54	SDT OUT	0	Data signal output to IC900
23	DZ	0	٠	55	D.SCK OUT	0	Clock signal output to IC651
24	D3	0	*	56	INH	0	Inhibit signal input
25	D4	0	4	57	D.SDT OUT	0	Serial data output to IC651
26	D5	0	*	58	RESET	_	Reset signal input from IC904
27	D6	=	4	59	SYNC	0	Not used
28	D7		•	60	X2	_	*
29	A0	1	P-ROM Add output	61	X1	<u> -</u>	<i>'</i>
30	A1		4	62	vss	_	Connect to ground
31	A2	Ŀ	4	63	OSC2	0	Output of Xtal oscillation circuit
32	A3	<u> </u>	+	64	OSC1	1	Input to Xtal oscillation circuit

■ LC8301A (IC651): DSP (Digital Signal Processor)

1. Terminal layout



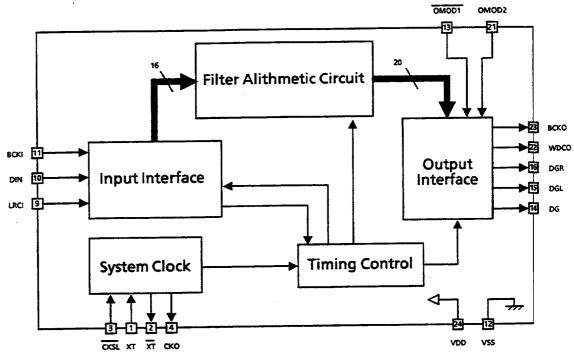
2. Pin functions

Pin No.	Symbol	1/0	Functions
1~6 7,8 9 10 11	P0~P5 AOTDF1/AOTDF2 DFBCK DFWCK RAS	20000	Not used Audio serial data output. Bit clock for AOTDF1 /AOTDF2 output. Not used ROW ADDRESS STROBE: Signal output when accessing external D-RAM.
12 13 14 15,45 16	CAS D READ D WRT VDD OSC1	0001-	COLUMN ADDRESS STROBE: Signal output when accessing external D-RAM. Data read signal output when accessing external D-RAM. Data write signal output when accessing external D-RAM. Power supply (+5V) External clock input. (384fs)
17 18,48 19 20~27 28~36	OSC2 VSS FS384O DO~D7 A0~A8	01020	Not used Ground 384fs output Data input / output between external D-RAM and these pins. Address output for external D-RAM.
37 38 39 40 41	BCK1 BCK2 ASI1 ASI2 LRCKO	1/0	Bit clock for ASI 1 input. Bit clock for ASI 2 input. Audio data serial input Audio data serial input L/R channel selectable signal output.(L:R-ch , H:L-ch)
42 43 44 46 47 49~52	LRCKI SEL TEST 5 RES INT TEST1~TEST4	0	L/R channel selectable signal input.(L:R-ch , H:L-ch) Oscillator selectable signal input. (L:external , H:internal) Output for TEST. Reset input Interrupt request signal input. Input for test. Connect to ground.
53 54 55 56 57 58 59 60 61 62 63 64	AOBCK ASO AOWCK SO SOCK SORQ SOAK SI SICK SIRQ SIAK SIRQ	0 0 0 0 1 1 0 1 1 0 1	Bit clock for ASO output Audio data serial output Not used Not used Not used Not used Request signal input for serial output Not used Serial data input from control micro computer. Serial clock input for SI input. Request signal input for serial input. Signal output which indicates that the serial input is on the execution. Ready signal input which indicates that the serial data input from control micro computer is an end.

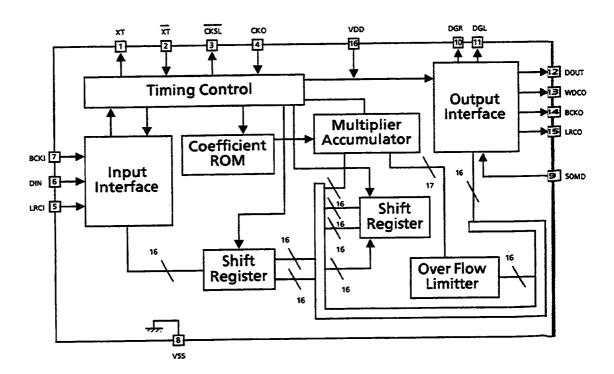
1-10 (No. 20269)

Internal Block Diagram of Other ICs

SM5818AS (IC655): Digital Filter

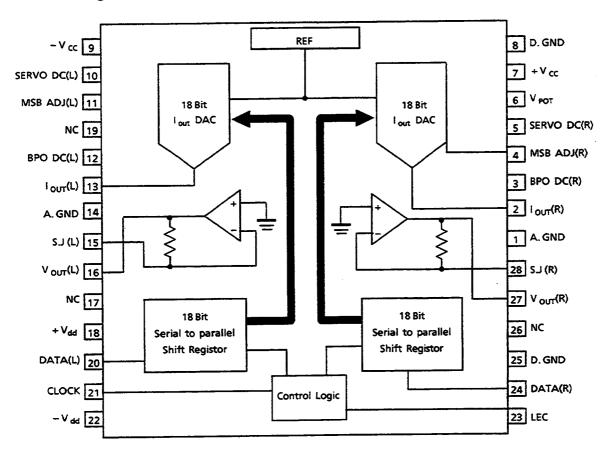


■ SM5807FS (IC656) : Digital Filter



■ PCM1700U (IC657): Digital to Analog Converter

1. Block Diagram

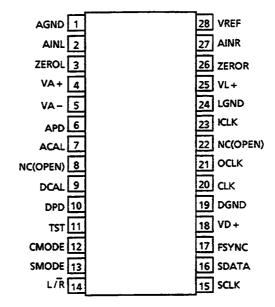


2. Pin Functions

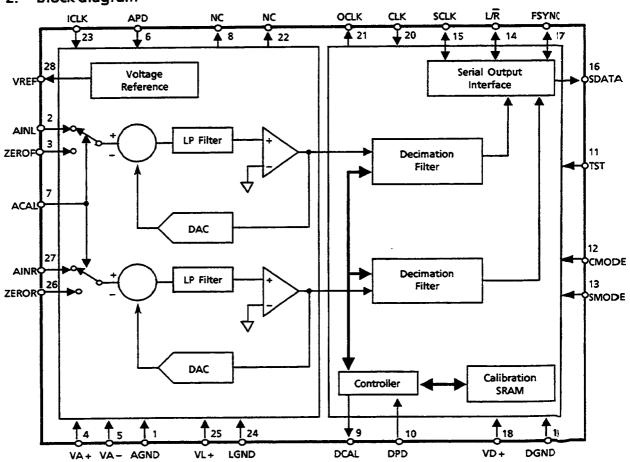
Pin No.	Symbol	Functions	Pin No.	Symbol	Functions
1	A. GND	Analog ground	15	S. J(L)	Feedback terminal (L ch)
2	I _{OUT} (R)	Current output (R ch)	16	V _{OUT} (L)	Voltage output (L ch)
3	BPO DC(R)	Offset filter (R ch)	17	NC	Non connection
4	MSB ADJ(R)	MSB adjustment (R ch)	18	+ V _{dd}	Power supply for digital circuit
5	SERVO DC(R)	Servo filter (R ch)	19	NC	Non connection
6	V _{POT}	Reference voltage output for MSB adjustment.	20	DATA(L)	.Data input (L ch)
7	+ V cc	Power supply for analog circuit	21	CLOCK	Clock input
8	D. GND	Digital ground	22	-V _{dd}	Power supply for digital circuit
9	-v _{cc}	Power supply for analog circuit	23	LEC	Latch enable control input
10	SERVO DC(L)	Servo filter (L.ch)	24	DATA(R)	Data input (R ch)
11	MSB ADJ(L)	MSB adjustment (L ch)	25	D. GND	Digital ground
12	BPO DC(L)	Offset filter (L ch)	26	NC	Non connection
13	l _{OUT} (L)	Current output (L ch)	27	V _{OUT} (R)	Voltage output (R ch)
14	A. GND	Analog ground	28	(R) L2	Feedback terminal (R ch)

CS5339-KP (IC654): Analog to Digital Converter

1. Terminal layout

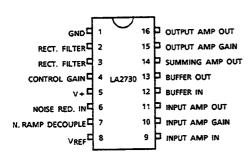


2. Block diagram

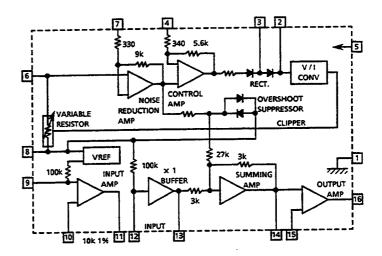


■ LA2730 (IC505): Dolby B type Noise Reduction

1. Terminal Layout

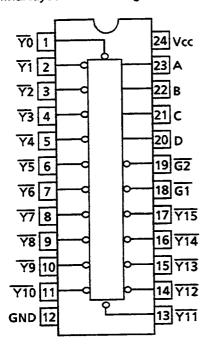


2. Block Diagram



■ TC74HC154AP (IC901) : Decorder

1. Terminal layout & Block diagram



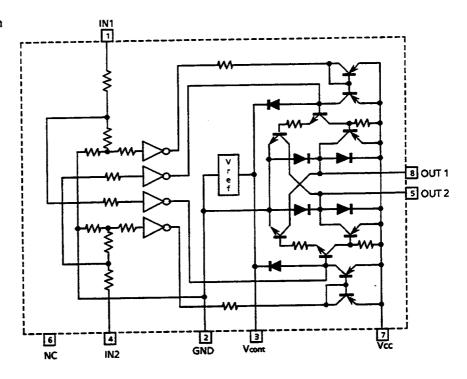
2. Functions table

	Selected					
G1	G2	D	U	В	A	Output
		الدائد الدائد	الد الد الد الد	JJTI	コエコエ	Y0 Y1 Y2 Y3
L L L		الد الد الد الد	HHHH	L T T	JIJI	Y4 Y5 Y6 Y7
L L L	L L L	H H H	L L L	L H H	LHLH	78 79 710 711
L L L	L	HHHH	H H H	L H H	LHLH	Y12 Y13 Y14 Y15
×	H ×	×	×	×	×	NONE NONE

x : Don't care

■ LB1639-CV (IC514) : Motor Driver

1. Block Diagram

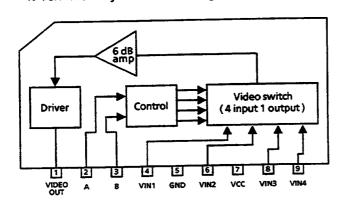


2. Functions table

IN 1	IN 2	OUT 1	OUT 2	MOTOR
Н	L	Н	L	CLOCKWISE
	Н	L	Н	COUNTER-CLOCKWISE
Н Н	н	OFF	OFF	WAITING
L	L	OFF	OFF	WAITING

■LA7952 (IC600): Video Switch with 6 dB amp.

1. Terminal Layout & Block Diagram

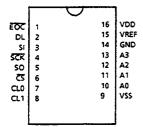


2. Pin functions

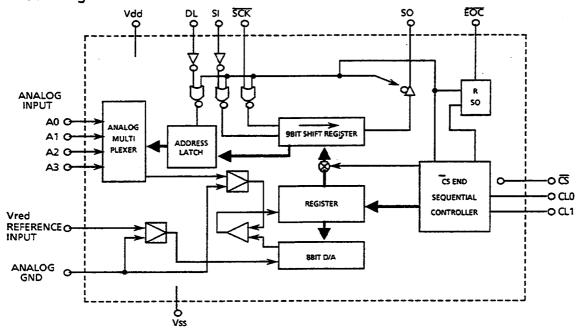
S2 (2 pin)	\$3 (3 pin)	VIN1 (4 pin)	VIN2 (6 pin)	VIN3 (8 pin)	VIN4 (9 pin)
н	н	ON	OFF	OFF	OFF
ī	н	OFF	ON	OFF	ON
H.	L	OFF	OFF	ON	OFF
	Ĺ	OFF	OFF	OFF	ON

\blacksquare μ PD7001C (IC906) : Analog to Digital Converter

1. Terminal Layout

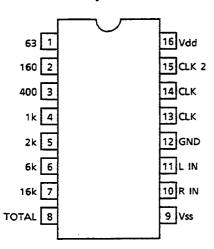


2. Block Diagram



XR1091DCP(IC907): Display Filter

1. Terminal Layout



2. Pin functions

Pin No.	Symbol	Descriptions
1	63	Peak hold output of 63Hz band-pass filter
2	160	Peak hold output of 160Hz band-pass filter
3	400	Peak hold output of 400Hz band-pass filter
4	1k	Peak hold output of 1kHz band-pass filter
5	2k	Peak hold output of 2kHz band-pass filter
6	6k	Peak hold output of 6kHz band-pass filter
7	16k	Peak hold output of 16Hz band-pass filter
8	TOTAL	Total frequency output (peak hold)
9	Vss	Power supply (-6V)
10	RIN	Right channel input
11	LIN	Left channel input : Connecting to ground
12	GND	Ground terminal
13	CLK	Connecting capacitor for clock
14	CLK	Connecting resistor to pin 13 for clock
15	CLK / 2	1/2 clock output
16	Vdd	Power supply (+ 6V)

1-16 (No. 20269)

Internal wiring of the FL Display

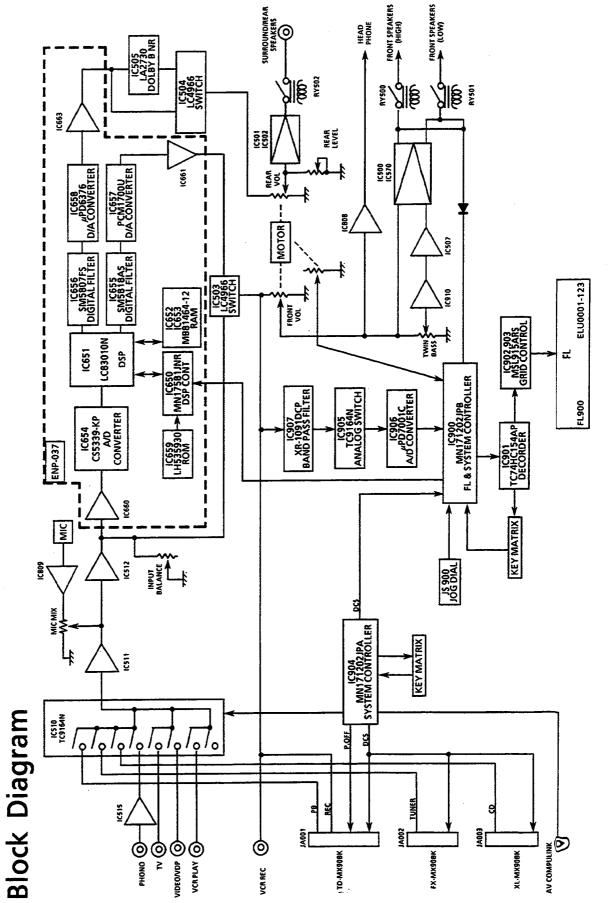
■ FL901 : ELU0001-123

2. Pin Connections

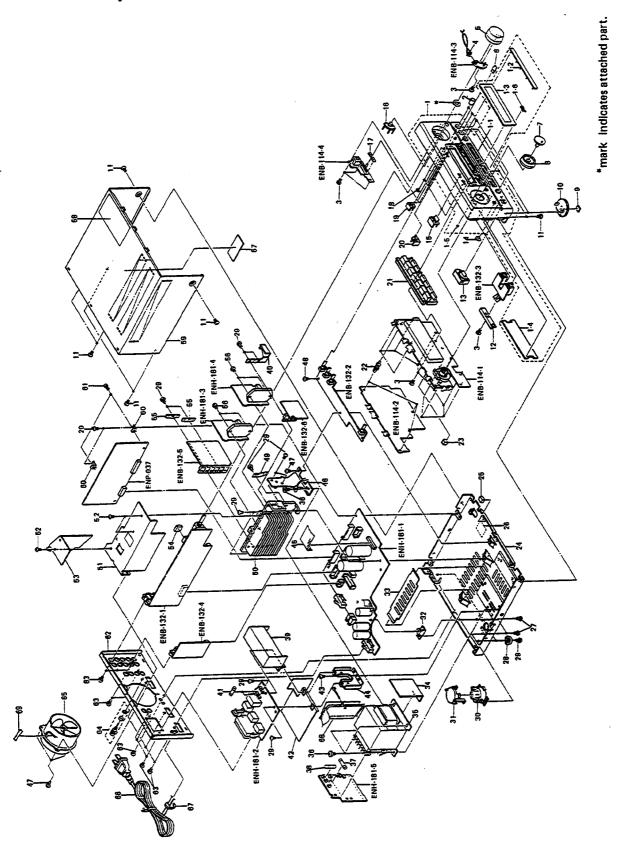
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3. Grid-Anode Connections

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16	D.SEA	SI	52	S3	S4	SE	SE	22	DAP DSEP	83	510	511	S12	S13	514	515	88	S16	S17	820	[](15)	[](28)	[](25)	[] (38)	\$19	818
26	B1	B2	83	B4	85	98	87	88	89	810	811	812	813	B14	815	816	B17	B18	B19	B20	B21	B22	R23	B24	825	826
99	18	82	83	84	BS	98	87	88	89	818	B11	812	813	B14	815	B16	817	818	819	B20	821	B22	B23	B24	B25	B26
46	81	82	83	84	BS	98	87	88	83	B10	B11	B12	813	B14	B15	816	817	818	819	B20	821	822	B23	B24	B25	B26
56	18	B2	ВЗ	B4	BS	BE	87	B8	68	B10	118	812	B13	814	815	816	817	B18.	819	B20	821	B22	B23	B24	B25	826
99	18	82	83	B4	82	98	87	88	83	810	811	B12	B13	814	815	918	817	818	B19	820	821	822	823	824	825	826
26	B1	82	83	B4	BS	98	87	88	B3	B10	118	812	813	B14	815	B16	218	818	819	0Z8	128	B22	628	B24	825	B26
98	18	B2	83	B4	92	B6	87	88	83	B10	B11	812	813	B14	B15	816	817	818	618	820	821	B22	628	B24	825	B26
96	81	B2	63	84	98	98	87	88	83	B10	B11	B12	813	B14	B15	816	817	B18	819	B20	B21	B22	823	B24	B25	B26
106	81	82	83	B4	82	98	87	88	83	B10	B11	B12	813	814	815	816	817	818	819	820	B21	B22	823	824	B25	826
116	81	B2	83	B4	82	98	B7	88	89	B10	B11	812	B13	814	B15	816	817	818	B13	B20	B21	822	B23	B24	B25	B26
126	81	82	83	84	82	BE:	87	88	88	810	811	B12	813	B14	815	B16	817	818	B19	B20	B21	B22	B23	B24	825	826
136	B1	82	83	B4	82	98	87	88	83	B10	811	812	B13		815	816	817	B18	819	B20	B21	822	823	B24	825	826
	P1	P2	P3	P4	PS	98	P7	BB	P3	P10		P12	P13	P14	P15	P16	P17	P18	P19	P28	P21	P22	523	P24	P25	P26



General Exploded View and Parts List



PARTS LIST

Contents

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Parts List

Δ	Item	Part Number	Part Name	Q'ty	Description	Areas
_	1 1-1 1-2 1-3 1-4	EFP-AXMX90BKE (S E102337-004 E306922-004 E306980-002 E406633-001	Front Panel Ass'y Front Panel Fitting Window Screen FL Screen	1 1 1 1	•	
	1-5 1-6 2 3 4	E60912-003 PQ42561 E306921-001 SDSF2608Z EWS142-024	Speed Nut JVC Mark Knob Screw Socket Wire Ass'y	1 1 4 15 1	MIXING	
	5 6 7 8 9	E306979-001 E406160-001 E306982-002 E306983-001 E75896-001	Volume Knob Slide Knob Jog Knob Shuttle Knob Spacer	1 1 1 1 2	BALANCE for Foot (Front)	
	10 11 12 13 14	E306935-001 SDSG3008M E406159-001 E306914-002 E406089-001	Foot Screw Bracket Push Button Ass'y Indicator	2 11 1 1	POWER STANDBY	
	15 16 17 18 19	E306916-002 E406158-002 E406337-001 E406091-001 E306917-001	Push Button Remote Lens Felt Spacer Indicator Push Button	3 1 1 2 1	DAP	
	20 21 22 23 24	E306917-002 E206881-001 E307112-001 E306805-032 E102324-005	Push Button Push Button Ass'y Fastener Spacer Chassis Base	1 1 3 1	DEMO SOURCE	Except U
	25 26 27	E102324-006 E306805-033 E74925-001 SBSG3008N SBSG3008N	Chassis Base Spacer Dolby Sheet Screw Screw	1 1 1 1 3		U Except U U
Æ	28 29 30 – 31	E47227-029 SBSG3010CC QSR0085-018 E406658-002 E302764-002	Foot Screw Voltage Selector Label Voltage Selector Cover	2 16 1 1	Rear for Voltage Selector	טטט
♠	32 33 34 35	E68587-004 E406638-001 E406377-002 ETP1150-42JA ETP1150-42FA	Circuit Board Bracket Protect Sheet Shield Cover Power Transformer Power Transformer	1 1 1		ກ າ ' c
	36 37	ETP1150-42EA ETP1150-42EABS E65389-004 QMF51U1-4R0S QMF51A2-2R5S	Power Transformer Power Transformer Special Screw Fuse Fuse	1 1 4 1 1	F001 F001	Except J,C,U,BS BS J,C U
	38 39 40	QMF51A2-1R25S QMF51E2-1R25SBS QMF51A2-1R25S E307662-002 E406712-001	Fuse Fuse Fuse Primary Cover Leaf Bracket	1 1 1	F001 F001 F002	Except J,C,U,8S BS U
♠ ♠	41 42 43	QMF51U1-2R5S QMF51A2-2R0S QMF51E2-2R0SBS E307661-002 SBST3006CC	Fuse Fuse Fuse Protect Sheet Screw	2 2 2 1 1	F101,F102 F101,F102 F101,F102	J,C Except J,C,≧S BS

\triangle	item	Part Number	Part Name	Q'ty	Description	Areas
	44 45 46 47 48	E307558-001 EWR1XE-14TT E406636-002 SBSG3008M E49447-003	Circuit Board Bracket Flat Cable Heat Sink Bracket Screw Shaft	1 1 1 4 1	FC900	
	49 50 51 52 53	E406271-001 E307563-002 E307576-001 SDSG3010M E307663-002	Spring Heat Sink Heat Sink Screw Sheet	1 1 1 3		
	54 55 56 57 58	E306805-034 E406092-001 SBSG3014CC E306805-024 E67000-017	Spacer Leaf Spring Screw Spacer Caution Label	1 2 4 1 1		
	59 60 61 62	E206809-007 E406346-001 E48729-008 E206841-004 E206841-005	Metal Cover Bracket Plastic Rivet Rear Panel Rear Panel	1 2 2 1 1		J C
	63	E206841-006 E206841-007 E206841-008 E206841-009 E73273-003	Rear Panel Rear Panel Rear Panel Rear Panel Special Screw	1 1 1 1 1		U A E,EF,G,GI BS
△	64 65 66	E70078-003 E206880-001 QMP1D00-200H QMP2560-244 QMP3900-200	GND Terminal Fan Ass'y Power Cord Power Cord Power Cord	1 1 1 1		J,C A E,EF,G,GI
	67 68	QMP7520-200 QMP9017-008BS QHS3876-162 QHS3876-162BS E406689-002	Power Cord Power Cord Cord Stopper Cord Stopper Sheet	1 1 1 1		U BS Except BS BS
	69 	EXC030006H10S11 E307570-001 E61029-009 E75803-001 E75804-001	Spacer Number Label Number Label Fuse Caution Label Fuse Caution Label	1 1 1 1		j Excpet j j C
	- - -	QZL1001-001 E45858-002 E70028-001 E74792-107	UL Label CSA Label Approval Label FTZ Label	1 1 1 1		G E C

▲ Safety Parts

The Marks for Designated Areas

J———the U.S.A. G——Germany
C——Canada — BS——the U.K.
A——Australia GI——Italy
E,EF——Continental Europe U——Universal Type
No mark indicates all areas.

Note (1)

PC Board Ass'y	Designated Areas
ENH-181 A	the U.S.A.
ENH-181 B	Canada
ENH-181 C	Universal Type
ENH-181 D	Continental Europe
ENH-181 E	Australia
ENH-181 F BS	the U.K.
ENH-181 G	Germany , Italy

Transistors

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1	9004		5(Q.R)	SI							SH				
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1 1	Q529		45 (VH)	SIL					101						
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	Q531	250214		SIL					ROH					j	
1 1	9532	DTC144		SIL					CON						
1	Q533	DTC144		SIL					OH						
1 1									OH						
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A : SAFETY PARTS

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	D504	155133			SIL					HOS						
	D505	188133			SIL					ROH						1
	D506				SIL					ЮН						
	D508	155133			SIL					OH						I
	D509				ZEN					DH						i
	D510				SIL					OH						ł
	D511	1SR139			SIL					ЮН						}
	D512	158139			SIL					ОН						
	D521	188133			SIL					OH						
1	D522	188133			SIL					OH						
	D523	155133			SIL					ОН						
	D524	188133			SIL		CN			OH						
		MTZ7.5			ZEN					OH						
	0527	155133			SIL					ОН						
!	0571	1\$\$133			SIL					ОН						1
i	D572				SIL					OH						
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	0574				ZEN					ОН						
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-	D575	MTZ9.1			ZEN					OH					ı	6
	D580	155133			SIL					OH					ı	
İ	D581	155133			SIL					OH					Į	
- 1	D582	155133			SIL					OH	-					
	D583	188133			SIL					OH						
- !	D584	188133			SIL					OH						
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A SAFETY PARTS

Capacitors

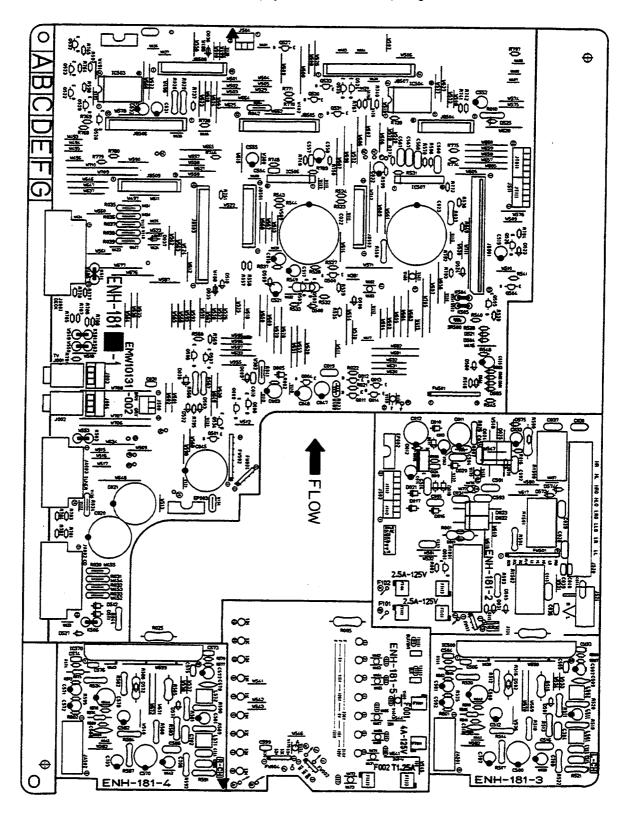
.		2.25	*****				N AREA
Δ	ITEM	PARI	NUMBER	DES	C R	PTIO	N AREA
1	C003	QEKS11	M-106	10MF	SOV	ELECTRO	- 1
1	C010	QCVB10	M-103	0.01MF	16V	CERAMIC	
	C011	QETB1	IN-227	220MF	SOV	ELECTRO	i
	C012	QETB1J		220MF	63V	ELECTRO	1
i	C013	QETB1H		22MF	SOV	ELECTRO	
1	C014	QETB1F		22MF	50V	ELECTRO	
ļ	C019	QFN81H		0.1 M F	50V	MYLAR	1
	COSO	CETB1V		3300MF	35V	ELECTRO	i
	C021	QETB1V		3300MF	35V	ELECTRO	i
	COSS		5-688T	6800MF		ELECTRO	
	C023		5-6887	5800MF		ELECTRO	ŀ
ſ	C024	QCVB10		0.01MF	16V	CERAMIC	١
1	C028	QFN81H		1000PF	50V	MYLAR	1
1	C028	QFN81H		1000PF	SOV	MYLAR	iBS
	C028	QFN81H		LOOOPF	50V	MYLAR	
	C029	QFN81H		DOOOPF	50V	MYLAR	1
	C029	Q5N81H		DOOOPF	SOV	MYLAR	iBS
	C029	QFR81H		1000PF	50V	MYLAR	1 6
	C030	QCVB1C QETB1H		0.01MF 4.7MF	16V 50V	CERAMIC ELECTRO	1
	C033	QETB1E		K7MF	25V	ELECTRO	
1	C036	CCHB1E		0.022MF	25V		1 .
1	C036	CCHB1E		0.022MF	25V	CERAMIC CERAMIC	BS
	C036	CCHB1E		D.022MF	25V	CERAMIC	1 33
	C037	QFN81H		1000PF	SOV	MYLAR	ì
	C037	QFX81H		1000PF	50V	MYLAR	in in the second
	C037	QFN81H		1000PF	SOV	MYLAR	1 75-
[]	C038	QFN81H		1000PF	SOV	MYLAR	1 1
1	C038	QFN81H		1000PF	SOV	HYLAR	185
1	C038	QFM81H		1000PF	SOV	MYLAR	1 6
	C039	QCHB1E		C.022MF	25V	CERAMIC	
i i	C039	QCHB1E		0.022MF	25V	CERAMIC	18.55
!	C039	QCHB1E		0.022MF	25V	CERAMIC	ے ا
1	C040	QCHB1E		0.022MF	257	CERAMIC	li
	C040	QCHB1E		0.022MF	25V	CERAMIC	BS
·····	C040	QCHB1E		0.022MF	250	CERAMIC	
	C043	'CFN81H		1000PF	SOV	MYLAR	i
] {	C043	QFN81H		1000PF	50V	MYLAR	85
	C043	QFR81H		1000PF	SOV	MYLAR	6
1	C044	QFN81H		1000PF	SOV	MYLAR	
	C044	QFX81H		1000PF	SOV	MYLAR	35
¦ i	C044	QFN81H		1000PF	SOV	MYLAR	6
	C045			2200MF	35V	ELECTRO	1
j)	C047	QEK51H		10MF	50V	ELECTRO	1
	C048	QEK51H		IOMF	50V	ELECTRO	
	CSOO	RETBZA		47MF	100V	ELECTRO	
	C501	EEZ500		10MF		ELECTRO	i
	C502	EEZ500	9-106	LONF		ELECTRO	
	C503	QCBB1H	K-101	100PF	SOV	CERAMIC	
	C504	QCBB1H	K-101	100PF	SOV	CERAMIC	1
					A ::	SA:F:ETY: P	

A : SAFETY PARTS

Printed Circuit Board Ass'y and Parts List

■ENH-181 Front Amplifier & Power Primary PC Board Ass'y

Note: ENH-181 □ varies according to the areas employed. See note (1) when placing an order.



Resistors

۵	ITEM	PART	NUMBER		CRI	PTION	AREA
Δ	R566		J-100S	10 56	1/4W	UNF CARBON	1
^	R567		J-560S	56	1/4W	UNF_CARBON	1
	R568	QRD167		1.5K	1/6W 1/6W	CARBON CARBON	ł
,	R569 R570	QRD167		1.5K 22K	1/6W	CARBON	
	R573	QRD167		TOOK	1/6W	CARBON	
. !	R574	QRD167		100K	1/6W	CARBON	1
1	R575	ERDO03		680		R.NETWORK	
- 1	R576	ERDO03	J-331	B 30		R.METWORK	
	R577	RRD167	J-821	820	1/6W	CARBON	
	R578	QRD167		390	1/6W	CARBON	
1	R579	QRD167		TOOK	1/64	CARBON CARBON	1
i	R580	220167		TOOK	1/6W 1/4W	UNF.CARBON	}
۱ ۵	R581		J-272S J-272S	2.7K 2.7K	1/49	UNF.CARBON	
٩	R582 R583		J-2725	2.7K	1/49	UNF.CARBON	
4	R584		J-272S	2.7K	1/49	UNF_CARBON	1
<u> </u>	R585		J-R22AM	0.22	1W	M.FILM	1
_	R586		J-R22AM	b.22	1W	M.FILM	İ
Δ.	R587		J-101S	100	1/48	UNF_CARBON	Α
۵	R587	QRD140	J-101S	100	1/48	UNF_CARBON	В
Δ	RS87	eRZ007	77-101	100	1/48	FUSIBLE	C
۵	R587	QRZ007		100	1/48	FUSIBLE	D .
Δ	R587	erzoo7		100	1/48	FUSIBLE	E
Δ.,	R587	QRZ007	77-101	100	1/48	FUSIBLE FUSIBLE	FBS
۵	R587		77-101 77-100	100	1/49	FUSIBLE	"
•	R588	@RZ007	7-100 J-100S	10	1/49	UNF.CARBON	
<u> </u>	R589 R590		J-1005	10	1/48	UNF.CARBON	
Δ	R591	000144	2001-1	10	1/49	UNF_CARBON	İ
Δ.	R592	0RD14	J-100S	10	1/48	UNF.CARBON	
6	R593		77-121	120	1/48	FUSIBLE	
Δ	R594	CRD14	J-4R7S	4.7	1/48	UNF.CARBON	1
	R595		7J-474	470K	1/6W	CARBON	
	R596		7J-103	10K	1/68	CARBON	-
	R597		71-104	100K	1/6W	CARBON	
	R598	QRD16		100K	1/69	CARBON CARBON	
į		QRD16		10K 100K	1/6W 1/6W	CARBON	ì
- 1	R649	WKD10	7J-104 7J-392	3.9K	1/6W	CARBON	
••••	R737	CEDIA	7J-392	3.9K	1/6W	CARBON	
	R739		71-471	470	1/6W	CARBON	ĺ
	R740		73-471	470	1/6¥	CARBON	
	R741	2RD16	7J-153	15K	1/69	CARBON	1
	3742	63D16	7J-272	2.7K	1/6W	CARBON	
	R746		7J-333	33K	1/65	CARBON	1
	R748		7J-223	22K 5.9K	1/6W 1/6W	CARBON	1
	R749		7J-392 7J-104	100K	1/6W	CARBON	ì
	R751		7J-104	100K	1/6W	CARBON	J
•. •••	R764		71-472	¥.7K	1/6W	CARBON	
	R765		71-472	4.7K	1/64	CARBON	ł
	R766	QRD16	73-472	4.7K	1/6K	CARBON	1
	R767		71-472	4.7K	1/6%	CARBON	i
	R768	QRD16	7J-103	TOK	1/68	CARBON	
	R769	QRD16	73-103	HOK	1/6¥	CARBON	1
	R770		7J-103 71-103	DOK DOK	1/6W	CARBON	1
	R771		7J-103 7J-103	nok	1/68	CARBON	}
	R773		7J-223	55K	1/6₩		1
• • • • •	R774	QRD16	7J-133	13K	1/68	CARBON	1
	R775		71-133	13K	1/68	CARBON	1
	R777	QRD16	71-242	2.4K	1/6₩	CARBON	1
	R778		71-242	2.4X	1/68	CARBON CARBON	1
	R779		7J-822	8.2K	1/64	CARBON	
	R780	00014	7J-822 7J-222	2.2K	1/62	CARBON	1
	R781	02014	71-222	2.2X	1/62	CARBON	1
	R783		73-562	5.6K	1/64	CARBON	1
	R784		71-562	5.6X	1/69	CARBON	
	R785		7J-152	1.5K	1/64	CARBON	1
	R786	QRD16	7J-152	2.5K	1/69	CARBON	1
	R787		7J-103	IOK	1/64	CARBON CARBON	1
	R788		7J-103	TOK	1/6W	CARBON	1
	R789	QRD16	7J-392	3.9K	1/6¥ 1/6¥	CARBON	
	R791		7J-102	1K	1/69	CARBON	
	R792		7J-102	1K	1/68	CARBON	
	R793	00014	57J-102 57J-102	ik	1/6W	CARBON	
	R795		7J-222	2.2K	1/6W	CARBON	
	R797	QRD14	7J-102	2.2K 1K 1K	1/6W	CARBON	1
	R801		7J-102	1K 1K	1/6¥ 1/6¥	CARBON CARBON	1

Others

Δ	ITEM	PART	NUMBER	Р	Ξ	s	С	R	I	P	T	I	0	N	AREA
		- ERU10	131-002	CII	CU	11	В	O A	P D						A
. :				CII	CO	IIT	3	OA:	PD						В
: :			131-102	CII	CD	IT	B	AO	RD						C
		26713		FUS											C
: 1		ENV10:	131-102	CII	E	IT									<u> </u>
/NI-	- 200	CO)						Φ.	::8	:A:	FE	T.	(; ⁻ !	PA:	RTS:

Others

Δ	ITEM	PART NUMBER		AREA
		EMW10131-102 EMW10131-102BS	CIRCUIT BOARD	E FBS
		EMW10131-10283	CIRCUIT BOARD	6
	1001	QMS3L10-0A0	MINI JACK	1
	1005	QMS3L10-OAC	MINI JACK CONNECT TERMINAL	
	1003	VMC0107-003 VMC0107-003	CONNECT TERMINAL	5
	J003	VMC0107-003	CONNECT TERMINAL	E
	J003	VMC0107-003	CONNECT TERMINAL	FBS
	1003	VMC0107-003 VMC0107-003	CONNECT TERMINAL	<u>e</u>
	3004	VMC0107-003	CONNECT TERMINAL	D
	1004	VMC0107-003	CONNECT TERMINAL	E
	1004	VMC0107-003	CONNECT TERMINAL	FBS
	1004	VMC0107-003 EMV7122-103	CONNECTOR (SPEN)	G
	J500 J504	ENV7122-103	CONNECTOR (SPEN)	
	J520	EMB9CTV-803A	SPEAKER TERMINAL	!
	J521	EMNOOTV-209A	2P PIN JACK	_ ا
••••	K503	ENZ8101-007 ENZ8101-007	INDUCTOR	<u>C</u>
	K503	ENZ8101-007	INDUCTOR	E
	K503	ENZ8101-007	INDUCTOR	FBS
	K503	ENZ8101-007	INDUCTOR	Ğ
•	K510	ENZ8101-007	INDUCTOR INDUCTOR	<u>C</u>
	K510 K510	ENZ8101-007 ENZ8101-007	INDUCTOR	Ĕ
	K510	ENZ8101-007	INDUCTOR	FBS
	K510	ENZ8101-007	INDUCTOR	ĕ
···	K511 K511	ENZ8101-007 ENZ8101-007	INDUCTOR INDUCTOR	<u>C</u>
	K511	ENZ8101-007	INDUCTOR	E
	K511	ENZ8101-007	INDUCTOR	FBS
	K511	ENZ8101-007	INDUCTOR	G C
••••	K512 K512	ENZ8101-007 ENZ8101-007	INDUCTOR INDUCTOR	<u>5</u>
	K512	EN28101-007	INDUCTOR	E
	K512	ENZ8101-007	INDUCTOR	FBS
	K512	ENZ8101-007 ENZ8101-007	H NDUCTOR	Ç
••••	K513 K513	ENZ8101-007	INDUCTOR INDUCTOR	Ď
	K513	ENZ8101-007	INDUCTOR	E
	K513	ENZ8101-007	INDUCTOR	FBS
	K513	ENZ8101-007 EQL0001-R45	INDUCTOR INDUCTOR	6
	L501	EQL0001-R45	INDUCTOR	·····
	L571	EQL0001-R45	INDUCTOR	ļ
	LS72	EQL0001-R45	INDUCTOR	١.
	EP002	E70859-001 E70859-001	EARTH PLATE EARTH PLATE	B
••••	FT001	EMG7331-002	FUSE CLIP	···-
	FTOOZ	EMG7331-002	FUSE CLIP	С
	F7011	EMG7331-002U	FUSE CLIP	
	FT022 FT101	EMG7331-002U	FUSE CLIP FUSE CLIP	C
	FT102	EMG7331-002 EMG7331-002U	FUSE CLIP	
	FT103	EM67331-002	FUSE CLIP	l
	FT104	EMG7331-002U	FUSE CLIP	ł
	FW002	EWR33E-16SST	FLAT WIRE (SPEN) FLAT WIRE (SPEN)	l
••••	FW501	EWR34E-20SST	FLAT WIRE (SPEN)	l
	FWSOZ	EWR38E-20LST	FLAT WIRE(MPIN)	l
	JA001	EMV7127-015	CONNECTOR (15PD)	l
	1 4002 2004 L	EMV7127-013 EMV7127-011	CONNECTOR (ISPIN) CONNECTOR (ISPIN)	
••••	JA501	EMV7125-009K	CONNECTOR (SPEN)	I
			CONNECTOR (SPEN)	
	18501 18502	EMV5125-009	PLUG ASSY(#PDF) PLUG ASSY(#PDF)	Ì
	JB503	EMV5125-015		L
••••	18504	EMV5125-008	PLUG ASSY(APDN) PLUG ASSY(APDN)	1
	JB505	EMV5125-012	PLUG ASSY(22PDK) PLUG ASSY(22PDK)	i
	IJB506 IJB507	EMV5125-012 EMV5125-014	PLUG ASSY(MPDE)	1
	JB508	EMY5125-010	PLUS ASSY(10PIN) PLUS ASSY(10PIN)	ļ
	JB509	EMV5125-009		1
	JB901	EMV7123-037 EMV7122-005	CONNECTOR (SPEN) CONNECTOR (SPEN) A past of JE11	
	UT011 UT012	EMV7122-005	CONNECTOR (APRIL) A most of 3502	1
	JT111	EMV7122-005	CONNECTOR (SPON) A part of JELL	
••••	J7112	EMV7122-103	CONNECTOR (SPEN) A pert of July	
	RY001	ESK1D12-211M	RELAY	1
	RY500 RY501	ESK8D12-211M ESK8D12-211M	RELAY RELAY	1
	RY502	ESK8D24-212	RELAY	ļ
	SR500	ERT-DZWHK202S	NEGATIVE THERMISTOR	:
		: F/FFAC .000	TAB	:
	TB001	E65508-002	ITAB	ł

Capacitors

Δ	ITEM	PART	NUMBER	DES	C R I	PT	I O N	AREA
	C505	QCBB1HF		220PF	SOV	CERAP		ĺ
	C506	QCBB1H		BZPF	SOV	CERAN		İ
1	C507	EEZSOOS EEZSSOS		IMF IOOMF		ELECT		1
	C508	QCS21H	·	5PF	SOV	CERAP		ł
i		*******************		ļ				·i
	C510 C511	QCS21H.		SPF 22MF	50V 2SV	CERAN ELECT		
- 1	C511	QETB1E		22MF	25V	ELEC?		1
	C514	QFN81H		D.1MF	50V	MYLAR		1
ı	C515	QFV81H.		O.1MF	50V			
	C516	QFV81H.	-104	0.1MF	50V	T.FIL	M	1
	C517	GEKSICA		22MF	167	ELEC?		1
- 1	C518	CERSICE		47MF	167	ELEC7		1
	C519	QEKS1E		LOMF	25V	ELECT		1
	C520	QETB1EN QERS1C		10MF 47MF	25V 16V	ELEC?		
- 1	C531	QEKSICA		22MF	16V	ELECT		1
1	C532	QEK51C		22MF		ELECT		1
1	C552	QETB1HP		1MF	SOV	ELECT		
	C554	QCSB1HJ		10PF	SOV	CERAN		<u></u>
	C555	QERS1H		1MF	50V	ELECT		ł
- 1	C557	QCSB1HJ		HOPF	50V	CERAM		1
- 1	C558	QERSICE QFV81HJ		22MF 0.1MF	16V 50V	ELECT T.FIL		I
1	C568	QFV81HJ		0.1MF	50V	T.FIL		1
	C570	QETB2AF		47MF	1007	ELECT		
- [C571	EEZ5009		10MF	••••	ELECT		i
j	C572	EEZ5009		10MF		ELECT	RO	
	C573	QC881##	-101	100PF	SOV	CERAM	IIC	1
	C574	QCBB1HX		100PF	50V	CERAN		.ļ
-	C575	QCBB1HK		220PF	50V	CERAM		
- 1	C576	QCBB1HK		82PF	50V	CERAN		
- 1	CS77 CS78	EEZSOO9		IMF 100MF		ELECT		}
	C579	QCS21HJ		SPF	sov	CERAM		1
<u> </u> -	C580	QCS21HJ		SPF	SOV	CERAM		
	C581	QETB1EM		22MF	25V	ELECT		-
	C582	QETB15		22MF	25V	ELECT		1
1	C585	QFV81HJ	-104	0.1MF	50V	T.FIL		
	C586	QFV81HJ		0.1MF	SOV	T.FIL		
- 1	C587	QFV81HJ		0.1MF	SOV	T.FIL		1
	C588	QFV81HJ		0.1MF	50V 100V	T.FIL MYLAR		1
İ	C591	QFN3ZAX QFN8ZAX		0.1MF 0.01MF	1007	MYLAR		}
	C593	QFN82A		0.01MF	100V	MYLAR		1
	C594	QFN81HX		0.1MF	507	MYLAR		1
ı	C595	QFN81HX		D.1MF	SOV	MYLAR		I
	C597	QFN81HX		0.1MF	SOV	MYLAR		
Į	C599	QCV81CX		0.01MF	16V	CERAM		ì
.	C701	QFV81HJ		0.1MF	50V	<u> </u>		
- 1	C702	QFV81KJ		0.1MF	50V 50V	T.FIL		
- [C703	QFV81HJ		0.1MF 0.1MF	50V	T.FIL		1
	C705	QETB1HM	-105	MMF	SOV	ELECT		1
	C706	QETB1HM	-105	IMF	SOV	ELECT		1
- 1								************
	C707	QETB1HX	I-105	1MF	50V	ELECT	RO	ł
		QETB1HM	I-105	1MF 1MF	50V 50V	ELECT		

A SAFETY PARTS

Resistors

Δ	ITEM	PA	RT		NU	M	B	E R	D	Ξ	s	С	R	I	P	7	1	Ī	0	N	ARE
Δ	R001	QR	302	2.	-2	21	A		220	•		2	¥		0	. 14	. 1	FI	LM		
	R002	QR	16	7.	-2	23	3		221	•		1	/61		C	AR	B)N			l
	R003	eRI	16	7.	-2	22	?		2.	2K		1	/61		C	AR	B	IN			1
Δ	R005	QR	:12	8	-2	75	Ε	M	2.3	M		1	/21		CI	DM	P	25	1		A
Δ.	R005	28	:12	81	-2	75	Έ	M	2.7	M		1	/2		CI	OM	P	25	I		В
Δ	R007	27	161	Ġ3	ÖE	ÖZ	R	2N	ļ	•••••	••••			•••••	FI	ÙŜ	11	ij,	E	•••••	1
	R008	921	16	7.	-3	32	?		3.3	SΚ		1.	/61		C	AR	80	m			l
Δ	R010	CRI	14	c.	-4	71	S		470	•		1.	141	,	U	NF	. (A	RB	ON	1
_	2015	631	16	7.	-2	71			270	•		1.	/61		C	AR	80	n			1
	R016	6.21	16	7.	-5	62	2		5.0	5K		1	/61	2	C	AR	B	'n			1
••••	R021	021	16	7.	-9	62	•		5.0	ĸ	••••	1	/61	;	Ċ	ÄŔ	B	X			1
	R022	QR	16	7.	-5	62	•		5.6	SK		1	/61		Ċ	AR	B	N			ł
Δ	R024	QR	302	2.	-2	71	A		270	•		2	ų i		0	. M	. 1	I	LM		1
Ξ	R025	QR	02	2.	-2	71	A		270	•		2	4		0	. M	-1	FI	ĽM		1
Ā.	R027	QR	14	c.	-1	ac	S		10			1	/41		Ü	NF	_ (Ä	RB	CN	A
ቖ	R027	QR							10	•	••••	1	/41		FI	ÜS	Ï	3Ľ	Ë	•••••	В
Ξ	R027	QR:	200	77	-1	00)		10			1	/41	2	FI	US	11	3L	Ε		C
◪	R027	QR:	200	77	-1	00)		10			1	/41		FI	US	11	3Ĺ	E		D
◪	R027	QR:	200	77	-1	00)		10			1.	/41		FI	US	1	3L	Ε		E
Ā.,	R027	QR:	00	77	-1	00)		20			1	/41		FI	US	11	3L	Ε		FE
፟	R027	Q.R.							iö			1	741		FI	ÜŚ	II	Ĭ	Ë		G
Ā	R028	eRI							10			1	141		UI	NF	. (Ä	RB	ON	A
Ξ	R028	QR:	_	-	_		-		10			1.	/41	ď	FI	US	11	3L	E		В
Ā	R028	QR:			_				Εō			1	141		FI	US	16	ΒĹ	E		c
Ξ	R028	28							50				/45		FI	υŠ	11	ΒĹ	Ε		D

Resistor

Re	sistors					
Δ	ITEM			SCRI	PTION	AREA
A	R028	QRZ0077-100	10	1/4W 1/4W	FUSIBLE FUSIBLE	E FBS
	R028	2RZ0077-100	10	1/48	FUSIBLE	G
Δ	R029	QRD14CJ-100S	10	1/44	URF.CARBON	A
A .	R029	QRZ0077-100 QRZ0077-100	10	1/4W	FUSIBLE FUSIBLE	B C
	R029	QRZ0077-100	10	1/48	FUSIBLE	Ď
Δ	R029	QRZ0077-100	10	1/48	FUSIBLE	٤
	R029	QRZ0077-100 QRZ0077-100	10	1/4W 1/4W	FUSIBLE FUSIBLE	FBS
A	R030	QRD14CJ-3R9S	3.9	1/48	UNF.CARBON	G A
Δ	R030	QRD14CJ-3R9S	3.9	1/48	UNF.CARBON	В
A	R031	QRD14CJ-3R9S QRD14CJ-3R9S	3.9 3.9	1/4W 1/4W	UNF.CARBON	A B
A.	R032			1/48	UNF.CARBON	Ā
A	R032	QRD14CJ-3R9S QRD14CJ-3R9S	3.9	1/4₩	UNF.CARBON	В
Δ	R033	QRD14CJ-3R9S	3.9 3.9	1/48	UNF.CARBON	A
	R033	QRD14CJ-3R9S QRD14CJ-3R9S	5.9	1/4W 1/4W	UNF.CARBON UNF.CARBON	A
Ā	R034	QRD14CJ-3R9S	3.9	1/4W	UNF.CARBON	8
Δ	R036	QRD14CJ-3R9S	3.9 3.9 3.9	1/4W	UNF.CARBON	A
A	R036	QRD14CJ-3R9S QRD14CJ-3R9S	3.9 R 0	1/4W 1/4W	UNF.CARBON UNF.CARBON	B A
Ā	R037	QRD14CJ-3R9S	3.9	1/48	UNF.CARBON	B
A	R039	QRD14CJ-3R9S	- -	1/48	UNF.CARBON	A
A	R039 R041	QRD14CJ-3R9S	3.9	1/48	UNF.CARBON UNF.CARBON	B A
Δ	R041	QRD14CJ-22OS QRD14CJ-22OS	22	1/49	UNF.CARBON	В
Δ	R042	QRD14CJ-3R9S	3.9 22 22 3.9 5.6	1/48	UNF.CARBON	A
Δ	R044	eRD14CJ-5R6S	5.6	1/4₩	UNF.CARBON	A
4	R044	9RD14CJ-5R6S	5.6	1/48	UNF.CARBON	B C
4	R044	QRZ0077-6R8 QRZ0077-5R6	6.8	1/4¥ 1/4¥	FUSIBLE FUSIBLE	, D
Δ	R044	QRZ0077-5R6	5.6 5.6	1/48	FUSIBLE	Ē
Δ.	R044	QRZ0077-586	5.6 5.6	1/48	FUSIBLE .	FBS
Δ	R044 R500	QRZ0077-5R6 QRG022J-820A	82	1/4W 2W	FUSIBLE OLM.FILM	G
-	R503	QRD1671-104	200K	1/6W	CARBON	
1	R504	QRD167J-104	100K	1/64	CARBON	
ļ	R505	ERD003J-681 ERD003J-331	680 530	· · · · · · · · · · · · · · · · · · ·	R. NETWORK	·····
į	R507	GRD167J-821	820	1/6W	CARBON	
	R508	QRD167J-391	390	1/68	CARBON	
1	R509 R510	QRD167J-104	TOOK	1/6¥ 1/6¥	CARBON CARBON	
Δ	RS11	QRD167J-104 QRD14CJ-272S	100K 2.7K	1/48	UNF.CARBON	
Δ	R512	QRD14CJ-272S	2.7K 2.7K	1/48	UNF.CARBON	
A	RS13 RS14	QRD14CJ-272S QRD14CJ-272S	2.7K	1/4¥ 1/4¥	UNF.CARBON	
<u>A</u>	R515	QRX012J-R22AM	0.22	18	M.FILM	
Δ	R516 R517		25.0	18 1/48	M.FILM UNF.CARBON	A
Δ	R517	QRD14CJ-101S	100	1/4W	UKF_CARBON	â
Δ	R517	QRZ0077-101	100	1/48	FUSIBLE	С
≙	R517		100	1/48	FUSIBLE FUSIBLE	E.
Δ	R517	GRZ0077-101	100	1/48	FUSIBLE	FBS
Δ	R517	QRZ0077-101	100	1/48	FUSIBLE	G
Δ	R518	QRZ0077-100	10	1/48	FUSIBLE	
Δ.	R519 R520	QRD14CJ-100S QRD14CJ-100S	10 10	1/4W 1/4W	UNF.CARBON UNF.CARBON	
Δ	R521	9RD14CJ-100S	10	1/48	UNF.CLRBON	
Δ	R522	GRD14CJ-100S	10	1/4W	UNF.CLRBOK	
ŀ	R524	QRD167J-823	BZK		CARBON	
*****	R525	QRD167J-474	470K	1/6W	CARBON	
	R527		30K	1/68	CARBON	
	R528 R529	QRD167J-562 QRD167J-103	5.6K 10K	1/6W 1/6W	CARBON	
Δ.	R530	QRD14CJ-100S	10	1/48	UNF_CARBON	
	R531	QRD167J-103	10K	1/68	CARBOX	
	R532 R533		100K 10K	1/6¥ 1/6¥	CARBON CARBON	
Δ	R534	@RD14CJ-100S	10		UNF.CARBON	
l	R535	QRD167J-222	2.2K 2.2K	1/68	CARBO	
	R536	QRD167J-222 QRD167J-104	2.2K 100K	1/6¥ 1/6¥	CARBON CARBON	
	R538		750		CARBOI	
	R539	QRD167J-362	3.6K	1/6W	CARBON	
	R540	9RD167J-181 9RD167J-820	180 82	1/6¥	CARBOI	·····
	R543	QRD167J-104	62 100K		CARBOX	
	R544	QRD167J-823	82K	1/68	CARBO	
	R545		15K		CARBO	1
	R546		15K 10K		CARBON CARBON	
	R549		10K 1.2K		O.M.FILM	
Δ	R550	GRZ0077-100	10	1/48	FUSIBLE	
	R557 R558		100K 82K	1/6W 1/6W	CARBON CARBON	
<u></u>	A 3 3 6 1	QRD167J-823			AFETY PAR	T:S:

Transistors

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A SAFETY PARTS

I.C.s.

	ITEM	PART	NUME	ER DE S	CRIP	Ţ	1 (N	AREA
Г	1C501	SI-187	'51	I.C.	SANK	E N			
į	IC502	SI-187	'51	I.C.	SANK	EN			
1	10505	LA2730)	ŭ.c.	SANY	3			1
ļ.	10510	TC9164	N	iz.c.	TOSH	EBA			i
]	IC511	BA1521	.8N	t.c.	ROHM				1
1	IC512	BA1521	88	p.c.	ROHM				I
1	10513	LC4966	,	I.C.	SANYO	•			1
1	IC514	LB1639	-cv	I.C.	SANY	•			1
ı	DC515	VC4580	LD	I.C.	DAIN	CHI			
l	1 C600	LA7952	<u>.</u>	n.c.	SANY)			İ
	IC808	VC4580	L	I.C.	DAIN	CH	[
İ	1C809	BA1521	.8N	I.C.	ROHM				
1	TC810	341521	88	I.C.	ROHM				

A SAFETY PARTS

Diodes

Δ	ITEM	PAR	T N	UM!	BER	D	Ε	s	С	R	1	P	T	ī	0	N	AREA
	D029	1\$R1	39-2	00		SIL	.ic	OK		-	ROP	M					
1	D513	1881	33			SIL	.IC	אס		- 1	ROP	M					į.
1	D514	MTZ1	3JC			ZEX	ER			- 1	ROI	M					Į.
1	DS15	RD13	JSB3			ZEN	!ER			- 1	¥E(:					i
İ	D516	MTZ1	JJC			ZEN	ER			!	ROP	M					
	D517	MTZ6	-2JC			ZEN	ER		••••	ï	RO	M					1
1	D518	1881	33			SIL	.IC	ON		- 1	ROP	M					ł
1	D519	RD12	JSB3			ZEN	ER			- 1	NEC	:					
1 :	0532	MTZ1	3JC			ZEN	ER			- 1	ROI	M					1
L	D533	MTZ1	2JC			ZEN	ER			1	ROP	M					<u> </u>
	D534	MTZ1	2JC			ZEN	ER			1	105	M					1
∤ .	D535	MTZ1	5JC			ZEX	ER			1	ROI	M					ı
1	D536	MTZ1	SJC			ZEX	ER			- 1	ROP	M					
	D537	MTZ1	5JC			ZEN	ER			1	ROP	M					ŀ
L	D538	MTZ6	. 8J C			ZEN	ER			. 1	105	M					
	D875	MTZ1	OJC.	******		ZEN	ER			1	101	M					
1	D876	MTZ1	01C			ZEN	28			1	101	M					

A SAFETY PARTS

Capacitors

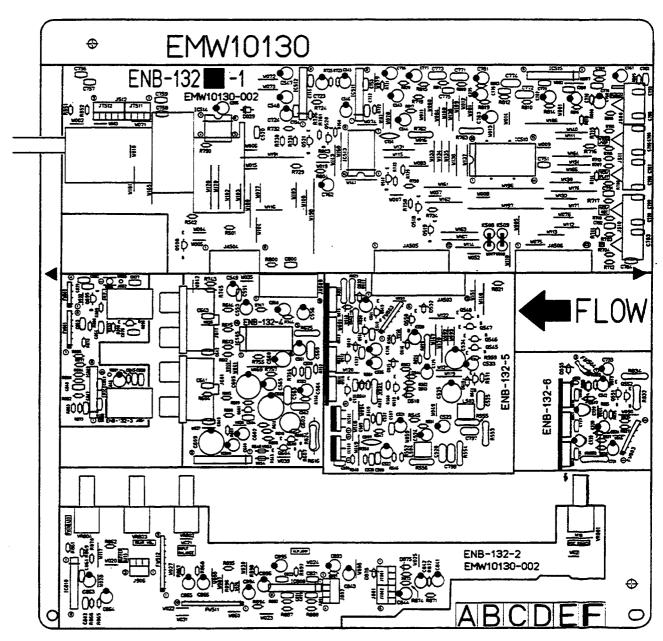
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Capacitors

Cal	Dacitoi	rs							
Δ	ITEM	PART	NUMBER	DES	C R	I P 7	10	N	AREA
Г	C548	QETB1	M-106	10MF	257	ELE	CTRO		i
	C549	QETB1		1MF	50V 25V		CTRO		
l	C551	QCBB1		470PF	SOV	CER	AMIC		
ļ	C553	QETB1		1MF	SOV SOV		CTRO		
l	C556 C559	QETB1H		4700PF	16V		CTRD AMIC		
	C560	QETB10	M-107	100MF	16V		CTRO		
l	C561 C562	QETB10		22MF 0.033MF	16V 50V	ELE T.F	CTRO ILM		
	C563	QFV81	IJ-104	0.1MF	SQV	T.F	ILM		
	C564 C565	QETB1H		1MF 0_33MF	50 V 50 V		CTRO ELECT	TR.	
	C566	QETB1A	M-476	47MF	10V	ELE	CTRO		
ļ	C569 C597	QFV81H		0.033MF 330PF	50V 50V	T.F	ILM Amic		
	C598	QCBB1H	K-331	330PF	50V	CER	AMIC	- 1	
	C600	QETB1A QETB1A		47MF	10V 10V		CTRO CTRO	- 1	
	C603	QENS10	M-476	47MF	16V	NON	POLE		*******
	C604 C605	QCSB1H QETBOJ		68PF 1000MF	50V 6.3V		AMIC CTRO		
	C608	QETBOJ	M-108	1000MF	6.37	ELE	CTRO	I	
	C609 C723	EET160	4-108M 9-106	1000MF			CTRO CTRO	i	
	C724	EEZ500	9-106	10MF		ELE	CTRO		
	C725	QERSIC QETBIC		47MF	16V 16V		CTRO CTRO		
	C727	QCVB1C	M-103	0.01MF	16V	CER	AMIC		
	.C728	QETB1C	********	E2MF	167		CTRO		
	C729 C730	QEHC1E QCVB1C		0.01MF	25V 16V		CTRO AMIC	- 1	
	C731	QET810		22NF	16V		TRO	- 1	
	C732 C733	QEHC15		47MF	10/. 52A		TRO	-	
	C762	EEZ250	5-107	1COMF		ELE	TRO		
	C763	EEZ250		100%F	SOV	CER			
	C765	QCBB1H		220PF	SOV	CER		- 1	3 1
	C765	QCBB1H QCBB1H	X-221 K-101	220PF 100PF	50V 50V	CER			
	C766	QCBB1H		220PF	50V	CER			В
	C766	QCBB1H QETB1H		220PF %.7MF	50V 50V	CERI			¢
	C768	QETB1H	M-475	4.7MF 100PF	50V 50V	ELEC	TRO		
	C769 C770	QCBB1H QCBB1H		100PF	50V	CER			
	C771	QFM81H	J-682	6800PF 6800PF	50V 50V	MYLA		- 1	1
	C773	QFM81H		1800PF	50V	NYLA			
	C774	QFM81H		1800PF	50V 50V	MYLA			
- 1	C776	QC331H	K-101	DOOPF	507	CERA	MIC	į	į
- 1	C777	QETB1H		4.7MF 4.7MF	50V 50V	ELEC		1	l
	C779	QC831H	K-101	100PF	50V	CERA	MIC		
	C780 C781	QCBS1H		100PF 47MF	50V 25V	CERA			1
İ	C782	QETB1E	4-476	47MF	257	ELEC	TRO		
	C783	QCBB1H		330PF 330PF	50V 50V	CERA	MIC		
	C785	QCBB1H	K~331	330PF	SOV	CERA	MIC	-1	
ı	C786	QCB31H		330PF 330PF	SOV SOV	CERA			1
	C788	QCB31H	(-331	330PF 220PF	SOV	CERA			
- 1	C789 C790	QCBB1HI		220PF 220PF	50V 50V	CERA CERA			
	C791	QCBB1H	K-221	220PF	SOV	CERA	MIC		1
Ì	C792	QCBB1H		220PF 0.022MF	50V 25V	CERA			
1	C795	QETS1E	1-476	47MF	25V	ELEC	TRO	<u> </u>	
	C796	QETB1E		47MF 0.1MF	25V 50V	ELEC T.FI			l
- 1	C798	QFV81H.	J-104	0.1MF	SOV	T.FI	LM		1
	CBC1	QCBB1HI		1000PF 100PF	50V 50V	CERA			
	C822	QCBB1HI	(-101 :	100PF	50V	CERA	MIC		ł
-	C823	QCSB1H.		47PF 47PF	50V 50V	CERA		-	
	C825	QCBB1H	(- 331	330PF	SOV	CERA	MIC		
	C825	QC881HI QC881HI		330PF 330PF	50V 50V	CERA		1	(
	C826	QCBB1H	(-331	330PF	SOV	CERA	MIC		(
	C827	QCBB1HI QCBB1HI		330PF 330PF	SOV SOV	CERA			8
Ť	C828	QCH31E	2-223	0.022MF	25V	CERA		T	
- 1	C841 C842	QETBIH	1-106	10MF	50Y 50Y	ELEC			1
i	C843	QET31E	1-106	10MF	257	ELEC	TRO		- 1
ļ	C844		1-106	10MF 0.022MF	25 <u>V</u> 25V	ELEC	TRO		
!	C846	PERSIC!	1-106G	10MF	16V	ELEC			I
i	C847	2CBB1H7 2CBB1H7		220PF 220PF	50V 50V	CERA			ļ
	C851	CCB31H		100PF	50V	CERA	MIC	⊥	لي
					Δ :: ₹	AFE	TY: P	A:RI	1:2

■ENB-132 Rear Amplifier & Source Select PC Board Ass'y

Note: ENB-132 varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENB-132 A	the U.S.A., Canada
ENB-132 B	Australia , the U.K. Continental Europe Universal Type
ENB-132 C	Germany , Italy

Transistors

1 -	T													ı
Δ	TEM	PART	NUMBE	R D	E	s	C R	: 1	P	Ţ	1	0	N	AREA
	Q508	DTC144	ES	\$11	LIC	ON		RO	HM					
•	0509	250168	5(Q_R)	is:	LIC	CX		MA	TSI	JSH	IT	l		ł
	2510	2SA564	ACE_R)	5:	LIC	CN.		KA	TS:	JSH	IT	١.		1
	2511	258118	7(E,F)	\$11	LIC	CN		20	HM					1
:	2512	2SA564	A(Q_R)	SI	LIC	CH		MΑ	TS	ISH	17	١.		
1	Q\$13	258118	7(E,F)	SI	ĽÏĈ	ÖN		RO	HM		•••••			
1	2514	250168	S(Q_R)	SI	LIC	CN		MA	TSI	ISH	IT	ι		Ī
ł	2515	250204	1(E,F)	SI	LIC	ON		RO	HM					
ł	Q516	250206	1(E,F)	SI	LIC	CN		RO	HM					
	Q517	2SD214	4S (VW)	SI	LIC	ON		RO	HH					
	Q518	2SD214	45 (VW)	SI	LIC	CN	•••••	RO	HM					
ĺ	2519	DTA144	ES	SII	LIC	ON		RO	нн					l
!	2520	DTA144	ES	SI	LIC	ON.		RO	HH					l
i	Q521-	DTA144	ES	SI	LIC	ON		RO	HM					ľ
<u> </u>	2541	258118	7(F,G)	SI	LIC	ON		RO	KM		_			
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Capacitors

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Resistors

۵	ITEM	PART NUM	BER DE	SCRI	PTION	AREA
	R501	QRD167J-33		1/68	CARBON	
	R502	QRD167J-33		1/6¥	CARBON	
	R545	QRD167J-103		1/6W	CARBON	1
	R546 R547	QRD167J-10 QRD167J-10		1/6W 1/6W	CARBON CARBON	
	R548	QRD167J-10	3 Lok	1/68	CARBON	·
- 1	R549	GRD167J-10		1/68	CARBON	
į	RSSC	QRD167J-10	3 pok	1/6W	CARBON	i
i	R551			1/69	CARBON	
!	R552	2RD167J-39	1 390	1/6¥	CARBON	
2	R553	QRD14CJ-1R	25 12	1/48	UKF.CARBON	İ
1	R554 R555	QRD14CJ-1R(1/48	UNF.CARBON UNF.CARBON	1
2	R556	QRD14CJ-100		1/48	UNF.CARBON	1
- i	R559	QRD167J-10		1/6¥	CARBON	
	R560	QRD167J-33	2 3.3K	1/6W	CARBON	1
Ì	R561	QRD167J-33	2 7 7 2	1/6¥	CARBON	1
:	R562	QRD167J-47		1/6W	CARBON	i
İ	R563	QRD167J-22	5 5.5K	1/6W	CARBON	1
- ¦	R564 R565	QRD167J-33	2 3.3K 3 10K	1/6¥	CARBON	<u></u>
ŀ	R565	QRD167J-103	2 5.1K	1/6¥	CARBON	B
J	R565	QRC167J-51		1/62	CARBON	Č
į	R571	QRD167J-27	1 270	1/69	CARBON	
1	R600	QRD167J-750	75	1/6W	CARBON	<u> </u>
	R601		0 10	1/62	CARBON	
	R604	QRC167J-750	75	1/6K	CARBON	
	P605 .	QRC167J-100	10	1/69	CARBON	
•	R606 :	QRC167J-22	2 2.2K	1/62 1/62	CARBON CARBON	
•	ROOS	GRC167J-12	2 6.8K 5 12K	1/6W	CARSON	
	ROOF	QRD167J-12		:/6W	CARBON	
	R61C	QRD167J-22	1 550	1/6W	CARBON	
	R611	QRD167J-12	1 120	1/6W	CARBON	
	R612	QRD167J-750	75	1/6K	CARBON	
	R6:3	QRD167J-47	3 47K 3 75	1/64	CARBON	1
	R614	GR0167J-750		1/6¥ 1/6¥	CARBON CARBON]
<u>.</u>	Roid	GRGOZZJ-ZZ	1A 220	2W	O.M.FILM]
Ξ.	R624		s 10	1/4W	UNF.CARBON	A
	R624	QR20077-100	0 10 10 10 5 10	1/48	FUSIBLE	A
<u>.</u>	R624	9RZ0077-100	10	1/42	FUSIBLE	C
١	4652 .	2801403-100		1/48	UNF.CARBON	A
-	R625	QRZ0077-100		1/48	FUSIBLE	В
٠.	R625	QRD1673-153		1/48	FUSIBLE CARBON	ļ <u>.</u>
	R704	QRD167J-153	5 15K	1/68	CARBON	1
	R705	QRD167J-153	s isk	1/64	CARBON	1
ł	R706	QRC167J-153	3 15K	1/6W	CARBON	!
!	R707	QRD167J-153	3 15K	1/6%	CARBON	
1	R708	QRD167J-153		1/6W	CARBON	
- !	R711	QRD167J-104		1/6W	CARBON	1
1	R712	QRD167J-104 QRD167J-104		1/6¥ 1/6¥	CARBON CARBON	l
1	R714	QRD167J-104		1/6W	CARRON	l
i	R715	QRD167J-104	100K	1/6W	CARBON	!
-	R716	QRD167J-104		1/69	CARBON	!
-	R717	QRD167J-471	1 470	1/69	CARBON	!
ļ	R718	QRD1673-471	1 470	1/6V	CARBON	1
	R719	QRD167J-104	100K	1/6W	CARBON	ļ
-	R720	QRD167J-104	100K	1/68	CARBON	ļ
i	R721	QRD167J-104		1/6¥ 1/6¥	CARBON CARBON	1
ĺ	R722	QRD167J-104 QRD167J-332		1/68	CARBON	1
į	R724	QRD167J-332	> 13_3K	1/68	CARBON	1
	2725	QRD167J-104	100K	1/62	CARBON	į
ĺ	R726	QRD167J-104	L POOK	1/6¥	CARBON	1
ı	R729	QRD1673-471	470	1/68	CARBON	i
- 1	R730	QRD167J-471	1 470 1 100K	1/6¥ 1/6¥	CARBON CARBON	i
- 1	R731	QRD167J-104				

Resistors

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Δ	ITEM	PART NUMBER	DES	CRI	PTION	AREA
	R732	QRD167J-104	100K	1/69	CARBON	
	R733 R734	QRD167J-222 QRD167J-222	2.2K	1/6¥ 1/6¥	CARBON CARBON	ĺ
	R743	QRD167J-223	SSK	1/6W	CARBON	ļ
	R744	QRD167J-103 QRD167J-683	10K	1/6W 1/6W	CARBON CARBON	
	R747	QRD167J-153	15K	1/6W	CARBON	
	R752	QRD167J-181	180	1/6₩	CARBON	
	R753 R754	QRD167J-473 QRD167J-332	47K 3.3K	1/6¥ 1/6¥	CARBON CARBON	
•••••	R755	QRD167J-274	27CK	1/68	CARBON	
ì	R756	QRD167J-622 QRD167J-274	6.2K 270K	1/62 1/68	CARBON CARBON	
i	R758	QRD167J-103	TOK	1/6W	CARBON	
	R759	QRD167J-103	10K 6.7K	1/69	CARBON	•••••
ŀ	R761	QRD167J-472 QRD167J-472	6.7K	1/6¥ 1/6¥	CARBON CARBON	
۵	R762	QRD14CJ-100S	10	1/4W	UNF.CARBON	A
<u> </u>	R762 R762	QRZ0077-100 QRZ0077-100	10	1/4W 1/4W	FUSIBLE FUSIBLE	S C
Δ	R763	eRD14CJ-100S	10 10	1/49	UNF.CARBON	A
Δi	R763	QRZ0077-100	10	1/48	FUSIBLE	В
Δ	R763 R790	QRZ0077-100 QRD167J-123	25K	1/4¥ 1/6¥	FUSIBLE CARBON	С
	R800	9RD167J-222	2 2K	1/6W	CARBON	
	R803 R804	QRD167J-132 QRD167J-132	1.3K 1.3K 2.2K	1/6W 1/6W	CARBON CARBON	
- 1	R805	QRD167J-222		1/6%	CARBON	
- !	R806	QRD167J-222	2.2K	1/65	CARBON	
	R807	QRD167J-473 QRD167J-473	%7K %7K	1/6¥	CARBON	
- 1	R809	QRD167J-474	470K	1/6W	CARBON	
-	R810	QRD167J-474	470K	1/69	CARBON	
	R811	QRD167J-393 QRD167J-393	39K 39K	1/6¥ 1/6¥	CARBON CARBON	
	R813	QRD167J-112	1.1K	1/6W	CARBON	
- 1	R814 R815	QRD167J-112 QRD167J-152	1.1K 1.5K	1/6W 1/6W	CARBON CARBON	
Ì	R816	QRD167J-152	1.5K	1/6K	CARBON	
	R817		100K	1/6W	CARBON	
- 1	R818 R819	QRD167J-104 QRD167J-681	100K 680	1/6¥ 1/6¥	CARBON CARBON	
- 1	R820	QRD167J-681	680	1/6W	CARBON	
	R821		IOK	1/6W	CARSON	
<u>-</u>	R822 R823	QRD14CJ-1ROS QRD14CJ-2R7S	2.7	1/4W	UNF.CARBON	Α
-	R823	QRZ0076-2R7	2.7	1/4W	FUSIBLE	В
i	R823	QRZ0076-2R7 QRD167J-103	2.7 10K	1/4W 1/6W	FUSIBLE CARBON	С
!	R825	QRD167J-222	2.2K	1/6W	CARBON	
	R826	QRD167J-103	10K	1/6¥	CARBON CARBON	A
	R827	QRD167J-332 QRD167J-152	3.3K 1.5K	1/6W	CARBON	B
į	R827	QRD167J-152	1.5K	1/6¥	CARBON	c
	R828	QRD167J-103 QRD167J-512	10K 5.1K	1/6W	CARBON CARBON	<u>B</u>
-	R828	QRD167J-512	5.1K	1/6W	CARBON	C
4	R829 R830	eRD14CJ-1ROS eRD14CJ-1ROS	1	1/4W	UNF.CARBON	
<u> </u>	R831	QRD14CJ-1ROS	i	1/48	UNF.GREON	
△	R832	QRD14CJ-100S	10	1/48	Dut. MICEOU	A
4	R832	QRZ0077-100	10 10	1/4W 1/4W	FUSIRE FUSIRE	B C
ا ۵	R833	QRD14CJ-3R9S	3.9	1/4W	UNF.GREON	A
<u>A</u>	R833	QRZ0077-4R7 QRZ0077-4R7	4.7 4.7	1/4W	FUSIBE	<u>B</u>
Δ[R834	QRD14CJ-3R9S	3.9	1/49	UNF. GREBON	A
Δ!	R834 R834	QRZ0077-487 QRZ0077-487	4.7 4.7	1/49 1/49	FUSIRE FUSIRE	B C
Δ	2835	QRD167J-103	iok	1/6#	CARBO	
	R851	QRD167J-331	330	1/66	CARBO	
į	R852	QRD167J-331 QRD167J-333	330 33K		CARBU	
1	R862	QRD167J-333	33X	1/69	CARBO	
	R865 R866	QRD167J-474 QRD167J-474	470K 470K	1/6¥	CARBO	
- }	R867	QRD167J-104	100K	1/6W	CARBO	
	R868 R869	QRD167J-104 QRD167J-473	100K 47K		CARBO	
- 1	R870	QRD167J-473	478		CARBO	
	R871	QRD167J-104	100K	1/69	CARBO	
Ţ			100K 47		CARBO	
	R872 R873		47	1/64	CARSO	
	R873	QR01673-470			CARBO	
	R873 R874 R877	@RD1673-470 @RD167J-331	330			 -
	R873	QRD167J-470 QRD167J-331 QRD167J-331	330 330 100K	1/69	CARSO CARSO	
	R873 R874 R877 R278 R379 R880	QRD1673-470 QRD1673-331 QRD1673-331 QRD1673-104 QRD1673-104	330 100k 100k	1/69 1/69 1/6W	CARSO CARSO CARSO	
	R873 R874 R877 R278 R379 R880 R881	QRD1673-470 QRD1673-331 QRD1673-331 QRD1673-104 QRD1673-104	330 100k 100k	1/69 1/69 1/6W	CARSO CARSO	
	R873 R874 R877 R278 R379 R880 R881 R882 R883	QRD167:-470 QRD167:-331 QRD167:-321 QRD167:-104 QRD167:-104 QRD167:-103 QRD167:-331	530 100K 100K 1x 10K 330	1/69 1/69 1/69 1/69 1/69	CARSO CARSO CARSO CARSO CARSO CARSO	
	R873 R874 R877 R878 R879 R880 R881 R882 R883 R883	QRD1671-470 QRD1671-431 QRD1671-381 QRD1671-104 QRD1671-102 QRD1671-102 QRD1671-331 QRD1671-331	530 100k 100k 100k 10k 130 530	1/69 1/69 1/6W 1/6W 1/6W 1/6W	CARSO CARSO CARSO CARSO CARSO CARSO CARSO	
	R873 R874 R877 R278 R379 R880 R881 R882 R883	RROLEF3-470 RROLEF3-331 RROLEF3-331 RROLEF3-104 RROLEF3-104 RROLEF3-105 RROLEF3-331 RROLEF3-331 RROLEF3-331 RROLEF3-331	530 100K 100K 1x 10K 330	1/69 1/69 1/69 1/69 1/69 1/69 1/69 1/69	CARSO CARSO CARSO CARSO CARSO CARSO	

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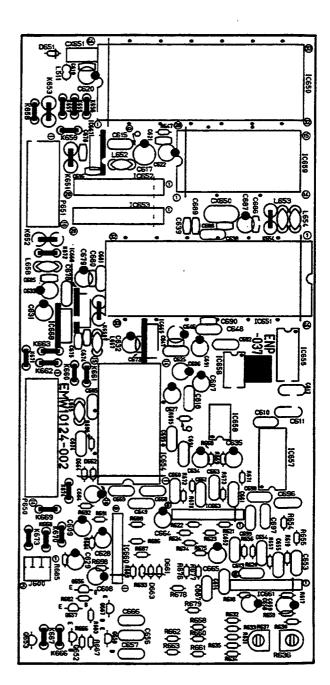
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	J١٦	78	02	ł	ε	M	٧	7	12	2	-	1	0	3			k	0	N	N	•	Ŧ	0	R	(4	0	(١	

A SAFETY PARTS

■ENP-037 DAP PC Board Ass'y

Note: ENP-037 \square varies according to the areas employed. See note (1) when placing an order.



Note (1)

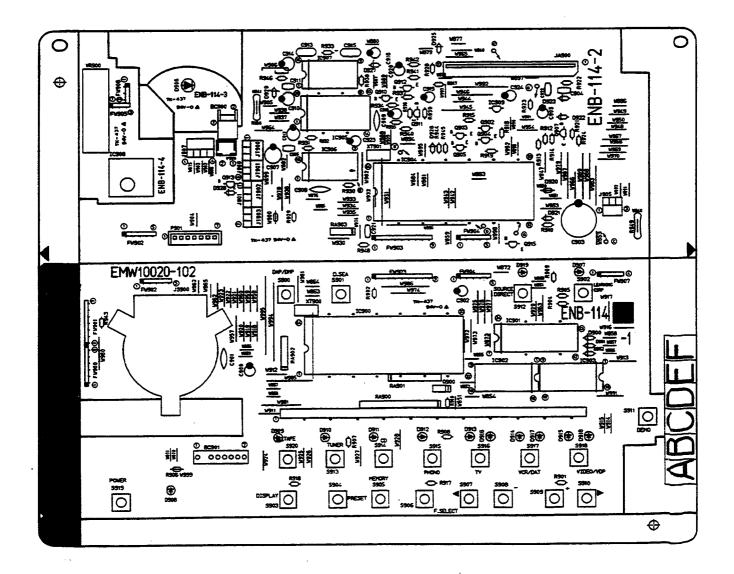
PC Board Ass'y	Designated Areas
ENP-037 A	the U.S.A., Canada
ENP-037 B	Australia , the U.K. Continental Europe Universal Type
ENP-037 C	Germany , Italy

Δ	ITEM	PA	RT	NU	MB	ER	D	E	s	С	R	I	P	T	I	0	N	AREA
_		EN	101	24-	002	2(S)	C11	co	11	B	OAI	?D						
			-00				SPA											В
		E34	-00	431			SPA	CE	R									C
	J600	EMV	511	1-0	03		Þιι	JG	AS	SY								8 C 8
	J600	EMV	511	1-0	03		PLL	JG	AS	SY								C
	K650	ENZ	810	1-0	07		INC	ÜC	TÖ	R								
	K651	ENZ	810	1-0	07		INE	UC	TO	R								l
	K6SZ	ENZ	810	1-0	07		INC	UC	TO	R								
	K653	EN2	810	1-0	07		INC	UC	TO	R								l
	K654	ENZ	810	1-0	07		IND	שנ	TO	R								
•••••	K655	EN2	810	1-0	16		INC	ÜÜC	TO	R	•••••	••••	•••	••••				
	K656	ENZ	810	1-0	16		IND	שנ	TO	R								Ī
	K657	ENZ	810	1-0	16		IND	UC	TO	R								
	K658	EN2	810	1-0	16		IND	UC	TO	R								
	K659	ENZ	810	1-0	16		IND	UC	TO	R								<u> </u>
•••••	K660	EN2	810	1-0	16	******	IND	ÜÜ	TÖ	Ř								
	K661	EN2	810	1-0	16		INC	שכ	TO	R								1
	K662	ENZ	810	1-0	16		INE	UC	TO	R								
	K663	ENZ	810	1-0	16		INE	UC	TO	R								
	K666	ENZ	810	1-0	16		IND)UC	TO	R								

Δ	TEM	PART	N	UM:	BER	D	E	s	С	R	ī	P	T	1	0	N	AREA
	K667	ENZ8:	01	-016		INC	υc	10	R								1
	K668	ENZ8:	101.	-016	•	INC											1
	K669	ENZ8:	101	-016	•	IND	סטכ	TO	R								1
	K670	ENZ81	101	-016	•	IND	UÇ	TO	R								l
	K671	ENZ81	101	-016	<u> </u>	IND	UC	TO	R								
	K672	ENZ8:	01-	-016		INC	UC	TO	R								
	K673	ENZ81	101-	-016	•	IND	UC	TO	R								1
	K674	ENZ81	101-	-016		IND	UC	TO	R								
	L511	EQL40	904-	-R22	:	IND	UC	TO	R								1
	L652	ESFO	101-	-222	: :	CER	AM	IC	F	IL	E	₹					
*****	L653	EQFO	01-	-222		CER	AM	IC	F	IL.	E	?					
	L654	EQFO	01-	-SSS	:	CER	AM	IC	5	IL7	EF	t					ł
	L655	ERFO	01-	-222	:	CER	AM	IC	F.	117	EF	t					1
	L657	ERFO	01-	-222	:	CER	AM:	IC	F:	IL7	E.	t					•
	L658	ERFO	01-	-222		CER	AM	IC	F	ILI	EF	:					l
	P650	ENV71	25-	-014	R	CON	NE	CT	ÖR	(14	PDI)	••••				
	P651	EMV71	25-	-010	R	CON	NE	CT	OR	(30	P.N)					ļ
	CX650	ECXO2	80-	-000	EF	RES	OR	AT:	OR								ł
	CX651	ECXOC	72~	-000	EM	RES	ON	AT	OR								l

■ENB-114 System & FL Control PC Board Ass'y

Note: ENB-114 varies according to the areas employed. See note (1) when placing an order.



Transistors

Δ	ITEM	PART	NUMBE	R D	E	s	С	R	I	P	T	I	0	N	AREA
	9652		45 (VW)	,	LIC				201						
1	9653 9656		45(VW)		LIC				201 201						i
į	9657 9658	2SD214	45 (VW)	SI	LIC				201 201						
	2667	DTA144			Lic				ios	*****					

A HISIAISTETY PIARTS

I.C.s.

_	-	_	-			_		-					-	_	_		_	_	-	_	_	_	_	-	_	_		_	_	_	_		_		•
Δ	1	1	•	E	M	3	٠,	١	R	T		N	U	М	9	E	ER		D	Ξ	s	С	R		I	P	٠	T	I	o	1	N		AREA	١.
	H	٥	6	50	,	ŗ	MI	•	. 7	75	8:		N	R				ī	. (:.				M	A٦	rs	יט	SH	17	A			1		
:	ī	Ċ,	6	5:			L	:	33	50	10)	ı					ī	. (s	A	eY!	D		-				1		
l	İ	c	5	52	2	l	MI	34	3:	4	64		.1	21	•	52	!	I	. (F	U.	ı.	T:	su					ļ		
•	I	C	5	53	5		MI	H	31	4	64		.1	21	•	52	:	П	. (F	v.	11	r	รข					ł		
	ı	C	5	54			C:	3	3	3	9-		P					1	٠.					A	SI	H.	Ţ	K	AS	EI			1		
	Ϊ	Ċ	5	5 5		-	SI	i,	ä	:	8/	S	7		•••			Ħ			****			ĸ	ÄÌ	ΪĒ	ij	Ť	SÜ	1	•		T		••••
1	I	C	5	56	,	ŀ	SI	1	3	80	71	:	;					Ţ	. 0					ĸ	AN	E	1	٩T	SU				1		
1	Þ	C	5	57	•		P		13	17	00	ì	ı					I	. (N	Iŀ	10	H	BA	R8	UR	1	UN	1		
	1	C	5	58	•		UI	1	1	3	76	¢	S					Þ	٠,					N	EC	:							1		
	1	C	5	55	•		L	ı;		55	94	5						Þ	. 0					S	ĸ,	R	>						l.		
	I	Ċ	54	ŠĈ	,	ľ	B/	ï	į	Z	ī٤	3			•••			Ħ	. c	-				R	Õ;	ľΜ	_		••••				Т		
1	I	C	54	51			٧	,		8	OL							Þ.	. 0					D	A 3	N.		H	1				ı		
	Į	C	54	53	:	ľ	V	7		8	٥L							II.	. ¢					D.	A 3	N	C	H	1				l		
ı	μ	C	54	55	:		Ν.	ı	17	79	MC	3	F	A				μ.	٠.					Ð.	A 3	N.	t	H	I				l		
l	I	C	54	56			N.	ı	17	8	MC	5	F	D.				II.	. <u>c</u>	•				D	A I	N	C	H	<u> </u>				L		
	Ī									8								Ι.	. Ĉ	-				D.	AI	N	Ç	H	I				Γ		- 7
	Ţ	C	54	58	: !		N.	,	7	8	40	3	F	D				Į.	. 0	•				D.	A I	ĸ.	(H	I				I		
	÷	_	_		_	_				_	_	-		-		_		_	_	_		_	_	_	_	_	=	-		_	Ξ		_		_

A SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESC	RIPTION	AREA
Г	D651	188133	SILICON	ROHM	
1			ZENER	ROHM	
i		MTZ4.7JB MTZ4.7JB	ZENER Zener	ROHM ROHM	
İ		MTZ4.7JB	ZENER	ROHM	

A SAFETY PARTS

Capacitors

Δ	ITEM	PART	NUMBER	DES	C R	1 P T 1	o n	AREA
	C605	QCH81	2-223	D:022MF	257	CERAMI	c	1
	C606	QETB1	H-476	47MF	257	ELECTR	C	ĺ
	C607	QETB1	H-476	47MF	257	ELECTR	e	
	C608	QETB1	IN-475	4.7MF	SOV	ELECTR	C	
	C609	RETS1		4.7MF	SOV	ELECTR	Č	l
*	C610	QFV81	J-104	O.1MF	SOV	T.FILM		
	C611	QFV81H	U-104	0.1MF	SOV	T.FILM		ļ
	C612	RFV81		0.1MF	501			ł
	C613			O.IMF	500	T_FILM		1
		QFV81		O.1MF	500	T.FILM		1
		QFV81I		0.1MF	SOV			·····
		QC681		1000PF				l
		QETB1		220MF	107			ŀ
		QFV81		0.1MF	50Y	T_FILM		
		QCGB1		DOOPF	501	CERAMI		1
	C620	QETB1/		LOOMF	100	ELECTR		
	C621	QCGB1F		1000PF		CERAMI		
		QETB1A		1000F	107	ELECTR		1
				1.5MF				ł
	C624	eczoso			257	CERAMI		ł
		QFV81		0.1MF	201	T_FILM	********	
		QETB15		LOMF	25V	ELECTR		i
	C628	QETB1E		10MF	257	ELECTR		i
	C629			10MF	257	ELECTR		ŀ
		EEZ500		0.47MF		ELECTR		
		EEZSCO		D.47MF		ELECTR		••••
		REHC1A		TOOME	107	ELECTR		ĺ
		QET819		LOMF	25V			i
		QETB1E	K-106	10MF	25V	ELECTR		
		QFV81H		O.1MF	SOV	T_FILM		
	C639	QCSB1H	IJ-680	68PF	SOV	CERAMI	C	
	C646	QETB1A	H-107	100MF	100	ELECTR	0	
	C647	QCHB1E	Z-223	0.022MF	25V	CERAMI	C	
- 1	C648	QFV81H	J-104	0.1MF	50V	T.FILM		
1	C649	eczo20	5-155	1.5MF	25V	CERAMI	c j	
	C652	QFN81H	J-103	0.01MF	50V	MYLAR		
	C653	QFN81H	J-103	0.01MF	500	MYLAR		
Į	C654	QFN81H	J-222	2200PF	SOV	MYLAR	1	
1	C655	QFNS1H	7-555	2200PF	SOV	MYLAR	1	
Į	C656	@FN81H		0.022MF	507	MYLAR	-	
- 1	C657	QFN81H	J-223	0.022MF	50Y	MYLAR		
	C658	CET31H	**************	22MF	507	ELECTR	3	
i		CETBIH		ZZMF	SOV	ELECTR	-	
- 1		QFN81H		0.01MF	SOV	MYLAR	٠ ا	
		QFN81H		0.01MF	SOY	MYLAR		
i	C662	QFN819		2200PF	SOV	MYLAR		
	C002	FLVOIN		ZZUUFF		SAFETY		

A SAFETY PARTS

Capacitors

						
Δ	ITEM	PART NUME	ER DES	CR	IPTION	AREA
1	C663	QFNS1HJ-222	2200PF	SOV	MYLAR	
1	C664	RETELEM-226	22MF	257	ELECTRO	
l :	C665	QETB1EM-226	22MF	257	ELECTRO	
	C666	QFN81HJ-223	D.022MF	SOV	MYLAR	
I		QFN81HJ-223	D.022MF		MYLAR	
1	C668	QFN81HJ-103	0.01MF	SOV	MYLAR	
	C669	QFN81HJ-103	D.OIMF	50V	MYLAR	
	C673	GCHB1EZ-223	0.022MF		CERAMIC	
	C674	CCHB1EZ-223	D.022MF		CERAMIC	
	C675	QCHB1EZ-223	D.OZZMF	257	CERAMIC	
	C676	QCMB1EZ-223	0.022MF	257	CERAMIC	
1 1	C678	QFV81HJ-104	0.1MF	50¥	T.FILM	
1 1	C679	REHCIAM-107	100MF	107	ELECTRO	
1 1	C680	CHB1EZ-223	0.022MF		CERAMIC	
L	C681	QFV81HJ-104	0.1MF	507	T.FILM	
	C684	QETB1EM-106	LOMF	25V	ELECTRO	
	C685	QCZ0205-155	1.SMF	257	CERAMIC	
!	C686	ecgbink-102	1000PF	50V	CERAMIC	
1 1	C687	RETBIAM-107	HOOME	10V	ELECTRO	
l	C688	QCT30CH-180	18PF	SOV	CERAMIC	
1 1	C689	QCT30CH-180	18PF	50V	CERAMIC	
1 1	C690	ecgB1HK-102	1000PF	50Y	CERAMIC	
	C691	RETBIAM-107	LOOME	10V	ELECTRO	
l	C692	QCZ0205-155	1.SMF	25V	CERANIC	
L	C694	QCZ0205-155	1.SMF	257	CERANIC	
	C695	QCZ0205-155	1.5MF	257	CERANIC	
	C696	QFV81HJ-104	D-1MF	50V	T.FILM	
1 1	C697	QFV81HJ-104	0.1MF	SOV	T.FILM	
!!	C698	QFV81HJ-104	0-1MF	50V	T.FILM	
	C699	QFV81HJ-104	D_1MF	50¥	T.FILM	

A HIS AFFETY PARTS

Resistors

Δ	ITEM	PART	NUMBER	DE	s	C R	1	P	1 T	0	N	ARE
	R617	QRD167	J-621	620		1/6	7	CA	RBON	_		
	R618	QRD167	J-621	620		1/6	¥	CA	RBON			1
1	R619	QRD167	J-821	BZO		1/6	¥	CA	RBCN			
	R620	eRD167		820		2/6			rbon			
	R621	2RD167		18K	•••••	1/6		*****	RBON			
	R622	9RD167		18K		1/6			RBON			
- 1	R623	QRD167		BZO		1/6			RBON			
-	R624 R630	QRD167 QRD167		820 180K		1/61			rbon Rbon			1
- 1	R631	2RD167		ESOK		1/6			RBON			i
••••	R632	QRD167		EK	•••	1/6			RBON		• • • • • • • • • • • • • • • • • • • •	}
i	R633	QRD167		Eĸ		1/61			RBOK			ł
	R634	QRD167		Ex		1/61			RBOX			1
- 1	R635	QRD167	J-102	1K		1/61	j	ÇA!	RBCM			
	R636	QVPA60	1-104A	100K					RIAB			
	R637	QVPA60	1-104A	FOOK				VA	RIAB	LE		,
	R647	QRD167		20K		1/6		_	RBON			
- 1	R654	QRD167		850		1/61			RBÇN			
	R655	QRD167		820		1/61			RBON			
	R656 R657	QRD167		B20		1/61			RBON			
- 1	R657	QRD167 QRD167		820 27K		1/61			RBON			
- 1	R659	QRD167		27K		1/61			RBON			
- 1	R660	QRD167		270		1/6			RBOR			
- 1	R661	QRD167		270		1/6			RBOR			
1	R662	QRD167		270	•••••	1/61			RBO #		*****	
i	R663	QRD167	J-271	270		1/6		CAS	380 1			
i	R666	QRD167		=OK		1/6			R BQK			
- 1	R667	QRD167		TOK		1/6			280 1			
1	R668	QRD167	J-104	100K		1/6	!	CA	BOI			
1	R669 R670	QRD167		100K		1/6			1801 1801			
١	R671	QRD167 QRD167		820 820		1/61			1085		- 1	
- 1	R672	QRD167		820		1/6			1001 1001			
1	R673	QRD167		820		1/61			1085			
	R674	QRD167	J-273	27K		1/6			BOI	• ••••		*********
ł	R675	QRD167	J-273	27K		1/6%	, ,	CAF	BOR		- 1	
- 1	R676	QRD167	J-391	390		1/6%			1085		- 1	
- 1	R677	QRD167		390		1/6			BOI		- 1	
	R678	QRD167		180		1/6			BOi			
- [.R679	QRD167		180		1/64			280i			
- 1	R682 R683	QRD167		10K 10K		1/6k			250		- 1	
- 1	R684	QRD167		220		1/69			250i		ı	
Į	R685	QRD167		220		1/6%			BD		- 1	
†	R686	920167		47K	•••••	1/6%			80i		1	*********
ı	R687	QRD167		47K		1/6			BO		- 1	
- 1	R688	QRD167	J-473	47K		1/6W	, (CAF	108S		- 1	
1	R689	QRD167	J-473	47K		1/6%			108		ı	
l	R690	QRD167		27K		1/6			BO			********
- [R691	QRD167		27K		1/6×			BO		1	
1	R692	QRD167		550		1/6%			180			
١	R693	QRD167		220		1/6%			180)			
- 1	R695 R696	QRD167.		10K 10		1/6W			1801 1801			
	K070	FKD 101	1-100			<u>1/6∎</u>						TS

Note (1)

PC Board Ass'y	Designated Areas
ENB-114 B	the U.S.A., Canada
ENB-114 C	Australia , Universal Type Continental Europe
ENB-114 D	Germany , Italy
ENB-114 E	the U.K.

Transistors

A	ITEM	PART	NUMBE	RD	E	s	С	R	1	P	Ŧ	1	c	N	AREA
Г	9900	DTC114	TFF	511				-	501						
l	9902	DTC144	TS.	SII					SOI						į
1	2903	DTC144	ES	SI	.IC	ON		,	501	H					1
	2904	DTC144	ES	SI	_IC	ON			501	M					
1	9905	DTC144	ES	SI	_IC	CN		F	105	M					<u> </u>
1	Q907	DTC144	ES	SI	IC	ON		ī	ROI	IM					
1	9910	250168	35(R/S)	SI	_IC	ON			IA :	้รเ	ISH	IJΤ	A		1
1	9911	250168	S(R.S)	SI	_IC	ON			AA?	'SL	ISH	IT	A		
	8912	250168	35(R.S)	SI	.IC	ON			441	SL	ISH	ĮΤ	A		ł
ļ	9913	DTC144	ES	SI	.IC	ON		F	105	M					l
ļ	Q915	DTC14	STS	SI	ΪĊ	ON		ï	ROI	IM					

A HIS A FIETY PLANTS

I.C.s.

Δ	ITE	34	PA	RI		N I	JM	3	ER	1	Þ	Ξ	s	С	R	I	P	1	٢	I	0	N	ARE	A
_	1090	<u> </u>	MN	17	120	22.	JΡI	3		1.	. с				1	MA'	TS!	US	H.	ĮΤ	A			
	1090		TC	74	IC:	154	A	P		ά.	. c				•	TQ:	SH:	IB	A				1	
	1090	2	MS	L9:	154	AR:	S			þ.	٠.				- 1	NI	10:	N	DI	EX	SO		1	
	1090	5 1	-MS	L9:	LS	125	5			缸.	. 0				- 1	NI	HOI	N	DI	EN	SO		i	
	1090		MN	17	120	02.	JP/	A		þ.	. С					MA	TSI	US	8	Ţ	A		1	
	1090	5 7	TC	91	341	Ĭ				Ε.	. С	-				TO:	SH.	ΪB	A					
	1090	5	UP	D7	00:	ıc				þ.	٠,					ΝE							1	
	IC90	7	XR	-10	9:	10	CP			ከ .	٠,				1	EX.	٩R	J	A	PA	N		1	
	1090	8	GP	10	50:	1X				þ.	. ¢				:	SH	AR	P					1	
	1C90	, l	MN	12	31	(P.	·Q)		þ.	. С				- 1	MA'	15	US	H.	ŢŢ	A		į.	

A SAFETY PARTS

Diodes

Δ	ITEM	PART	NUMB	ERI	E	s	С	R	I	P	T	I	0	N	AREA
	0900	188133		sı	LI	CON		,	101	111					
	D901	188133		İsi	LI	CON			109	111					ĺ
	D902	155133		SI	LI	CON		,	101	IN					
	D906	LN282R	PX	L.	E-1	D.									i
	0907	SLH-34	VC3F	L.	E.1	D -		ş	105	M					
••••	D908	SLH-34	VC3F	L.	E.I	D -	••••	F	10	111					8
	D908	SLH-34	VC3F	L.	E.1	D -		F	109	Н					C
	D908	SLH-34	YC3F	L.	E-1	D.			109	IM					D
	D908	SLA-58	OLT3F	L.	E-1	D.			101	m					E
	D909	SLH-34	VC3F	L.	E-1	D.			105						<u></u>
•••••	D910	SLH-34	VC3F	L.	E.	Ď-		Ī	10	IM					1
	D911	SLH-34	VC3F	L.	E-1	D.		F	101	m					
	D912	SLH-34	VC3F	L.	E.1	D -		,	109	ш					
	0913	SLH-34	VC3F	L.	E.	D.		F	109	IK					1
	D914	SLH-34	VC3F	L.	E.I	D.		,	O	H					<u> </u>
	D915	SLH-34	VC3F	L.	E.I	Ď.		ï	O	m					
	D916	SLH-34	DC3F	L.	E.1	D.		1	109	IM					
	0917	SLH-34	DC3F	L.	E.I	D.		,	109	Ħ					l
	D918	SLH-34	DC3F	L.	E.1	D.		F	101	IM					i
	D919	SLH-34	VC3F	L.	E . !	D _			101						
	D920	188133		51	LI	CON		,	10	ŧM.					1
	D921	188133		SI	LI	CON			105	1M					
	D922	188133	-	SI	LI	CON			101	m					
	D923	155133		51	LI	CON		1	109	M					
	D925	188133	;	51	LI	CON		F	10	m					
	D926	188133	· · · · · · · · · · · · · · · · · · ·	51	LI	CON	•••••	Ī	101	111					
	D927	MTZ5.1	JC	ZE	NE	R		ŧ	101	m					1
	D928	155133	;	sı	LI	CON		F	105	m					1
	0929	MTZ5.1	JB	ZS	NE	R			101	m					!

Capacitors

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	1	9	1	9	ł	e	E	K	5	1	CI	ţ.	- 2	0	6	G			10	M	F			1	6١	V		1	EL	E	¢1	R	3			i	
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	1	:9	2	3	ł	•	£	K	5	1	н	1-	• 1	0	5	G			11	F				5	01	V		1	L	E	:1	R)			l	
	1	:9	2	4	ł	•	E	K	5	1	CI	1-	1	0	6	G			10	M	F			2	6١	٧			L	E	:1	R)			ſ	

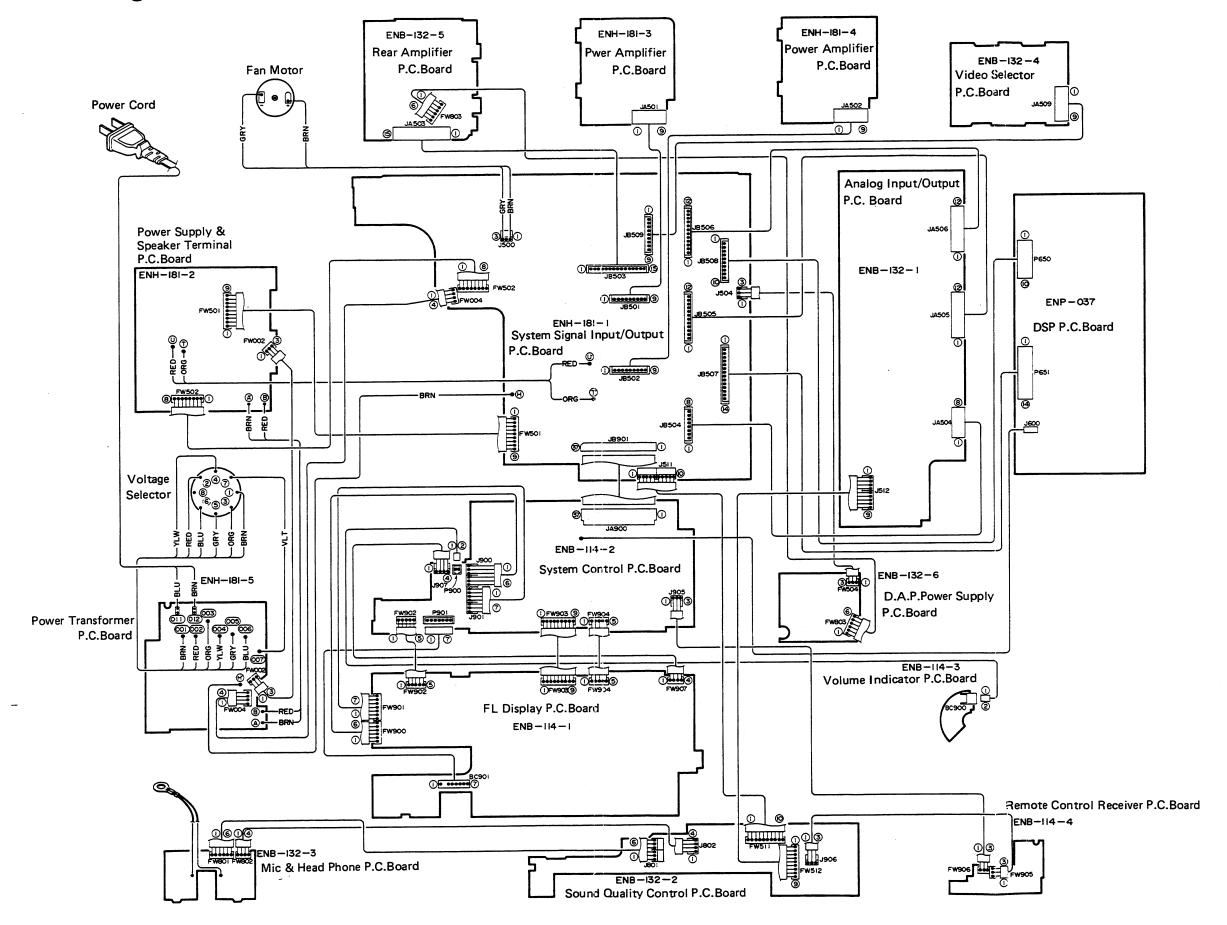
A SAFETY PARTS

				T					_			
۵	ITEM	PART	NUMBER	DE	s	C :	R I	P	TI	٥	N	AREA
	R900	QRD167	J-473	£7K		1/	6W	CA	RBON			
	R901	QRD167	J-103	10K		1/	6¥	CA	RBON			
	R902	QRD167		10K			6W		RBON			
	R904	QRD167		820			6¥		RBON			
	R905	QRD167	<u>1-331</u>	330 330			6W		RBON			B
	R906	QRD167 QRD167		330			6W		RBON			ເ
	R906	QRD167		330			6W		RECH			٥
	R906	2RD167		470			6¥		RBON			ĮĒ
	R907	QRD167		330			6W	CA	RBON			l
	R908	QRD167	J-331	330		1/	6¥	CA	RBON			
	R909	QRD167	J-331	330		-	6W		RBON			
	R910	QRD167		67			6W		RBON			
	R912	eRD167		IOK			6¥		RBON			
	R913	2RD167		TOX			6W		RECH			
	R914	QRD167 QRD167		10K			6W 6W		RBON RBON			
	R915 R916	QRD167		IOK			6W		RBON			
	R917	QRD167		IOK			6¥		RBON			
	R918	2RD167				1/			RBON			
	R919	QRD167		10K		77			RBOK			
	R921	QRD167		220		1/	6W		RECH			
	R922	QRD167	J-473	67K		1/	6W	CA	RBCM			
	R923	QRD167	J-103	10K		1/	6 K	CA	RBON			
	R924	QRD167		22K			6K		RBON			
	R929	QRD167		22K			6 M		RBON			
	R930	QRD167		27K		1/			RBON			
	R931	QRD167		22K			6W		RBON			
	R932	QRD167		55K		1/	6W 6W		RBON RBON			
	R933 R934	QRD167		1.5K 100K			6W		RBON			
	R935	QRD167		47K			6W		RBON			
	R936	QRD167		Tok			6¥		RBON			
	R937	QRD167		27K		1/		CA	RBON			
	R938	QRD167				1/	6W	CA	RBOX			
	R939	QRD167		5.6K 47K		1/		CA	RBON			
	R940	QRD167	J-153	15K		1/	6W		RBON			
	R941	QRD167		1.M			6W		RSON			
	R942	QRD167		10K		1/			RBON		-	
	R943	2RD167				1/			RBON RBON			
	R944	QRD167		TOK		1/	6¥		RBON			
	R945	QRD167		240		1/			RBON			
	R947	QRD167		2.2K		1/			RBO			
	R948	QRD167		150			6W		RBO			
Δ	R949		J-287S	2.7			4W		F.CA	B	ON	В
Δ	R949	erzoo7		4.7			44		SIBL			C
۵	R949	QRZ007	7-4R7	4.7		1/			SIL			Đ
۵	R949	222007	7-4R7	4.7		1/			SIBL		_	Ε
	RA902	QRB069	J-103	nox			10¥		NEW			
_	RA903	QRB049		10K		1/	10W		NETV			
	VR900	6AXY01	V-E158	100K				VA	RIB	. E		
						_	,	A:F	ETY	- :	PIA:	OT:S

Others

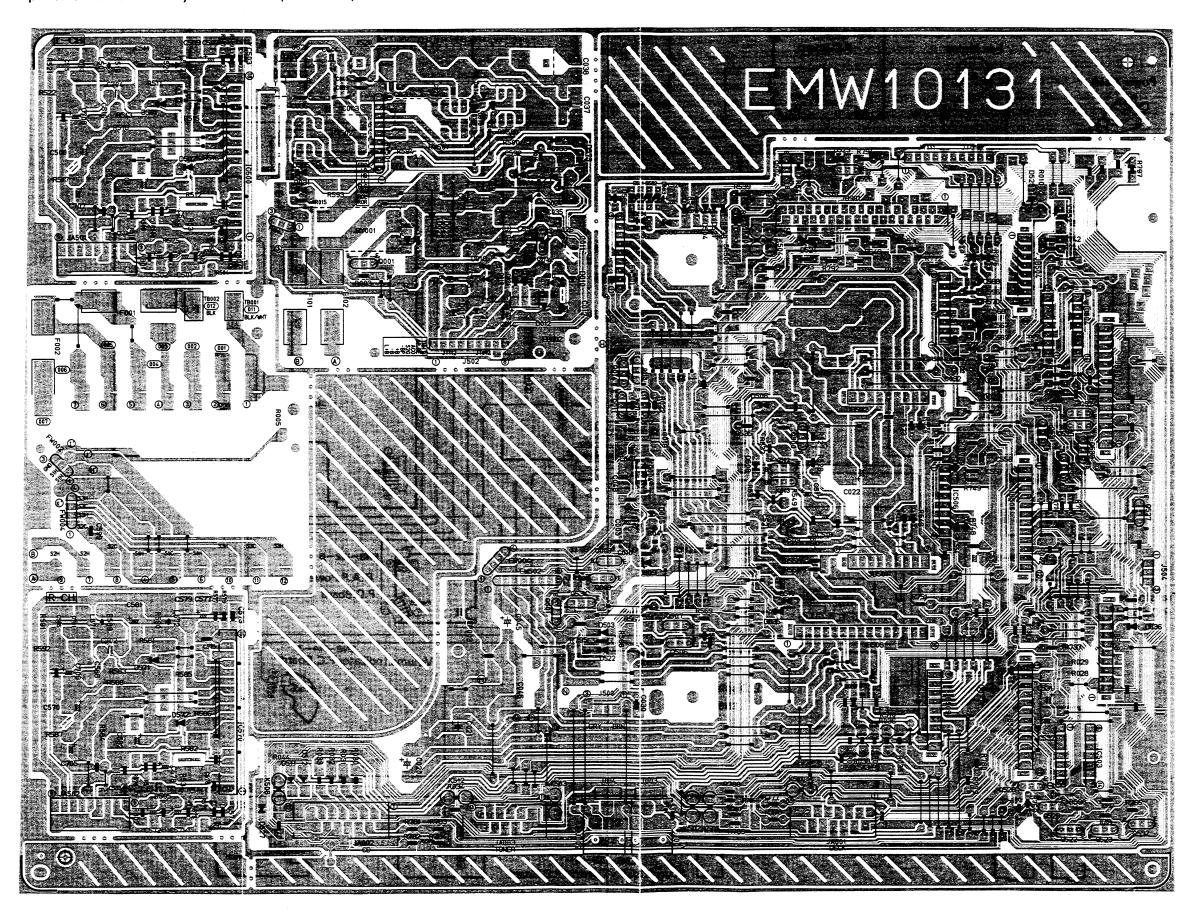
۵	TEM	PART	NUMBER	DE	s	С	R	:	P	Ŧ	I	0 1	į.	AREA
		EMW100	20-102	CIRCE	111	3	OAR	3						
		E3400-	431	SPACE	ER									
		EWS243	-039	SOCKE	T	WI	RE							C
		EWS243	-039	SOCKE									Į	D
		EWS243	-039	SOCKE										E
	J905	EMV712	2-103	CONNE	CT	OR	(32)	X)						
	J907	EMV712	2-004	CONNE										
	P900	EMV510	3-002A	PLUG										
	P901	EMV513	3-007	PLUG	AS	SY	(72)	N)					1	
1	5900	ESP000	1-018	TACT	SW	IT	CH (DA	P)					
•	5901	ESPOOD	1-018	TACT										
- 1	5902	ESP000	1-018	TACT	SW	IT	CH (CS	EP)					
i	\$903	ESP000	1-018	TACT	SY	ΙŤ	CH (DE	PL	LT)			1	
- 1	5904	ESP000	1-018	TACT	SE	IT	CH	7	32	T)				
1	5905	ESP000	1-018	TACT	SW	IT	CH (10	MO	KY)				
****	\$906	ESPOCO		TACT	S¥	ΪÏ	CH.	Ϋ.	Ü	C.	•			
	S907	ESPOCO	1-018	TACT	SK	IT	CH (•)				ļ	
	5908	ESPOOD	1-018	TACT	SW	IT	CH	(DC	WN)				
- 1	5909	ESPOOD	1-018	TACT	SW	IT	CH ((UZ)					
	5910	ESPOOD		TACT	SW	IT	CH		•					
	5911	ESPOOD		TACT	SW	ΙT	CH	Œ	80	,				
	\$912	ESPOOD	1-018	TACT	SH	IT	CH	(S.I	102	CT))			
	\$913	ESPOOD	1-018	TACT	SW	IT	CH (TU	ΝZ	E)			i	
	5914	ESPOOD	1-018	TACT	SW	IT	CH	Œ)				- 1	
-	5915	ESPOOD	1-018	TACT	SH	IT	CH	PH	CERC	2)				
	\$916	ESPOOD		TACT	SW	ΙŤ	CH (TV	>	•••••	•••••	•••••		
- 1	5917	ESPOOD	1-018	TACT	SW	11	CH	YC	E/D	MT;	>			
- 1	5918	ESPOOD		TACT	SW	IT	CH	(VI	100	/ V.	P)			
- 1	5919	ESPOOD	1-018	TACT	SW	IT	CH (10	w	E)			į	
	5920	ESPOOD	1-018	TACT	SW	IT	CH	TA	FZ)					
	BC900	EMY510	3-002B	PLUG	ÄS	SY	(27	DF)					7	
	BC901	EWS247	-008	SOCKE	T	٧I	RE	(7)	ET)					
- 1	FL900	ELUCOC	1-123	FL TI	JBE									
	FS900	E30630	5-007	FELT	\$2	AC	ER							
	FK900	EWR36E	-13LST	FLAT	YI	RE	(47	D()						
	FW901	EWR378	-13LST	FLAT										
	FW902	EWR358	-08SST	FLAT										
- 1	FW903	EWR398	-08SST	FLAT									-	
	F¥904	EWR35E	-08SST	FLAT	WI	RE	(42	D()						
	F¥905	EWR339	-13LST	FLAT	WI	RE	(32	O()						
	FW906	EWR338	-13LST	FLAT	ÄI	RE	(37	K)						
1	FW907	EWR34E	-25LST	FLAT										
ļ	JA900	EMV712	3-037	CONNE										
ļ	12900	ENZ240		WIRE					ı.	RE	SI	210	R	
	J T900	EMV712		CCNNI					••••	••••				
	J T901			CONN										
- 1	TPCZ	E-1712	2-004	CCKNI										
	JT9C3	EMV7:2		CONN				Dt)						
- 1	XT900		MBDOC+0	RESO										
	XT90:		3000EM	RESO		JO D							- 1	•

Connection Diagram

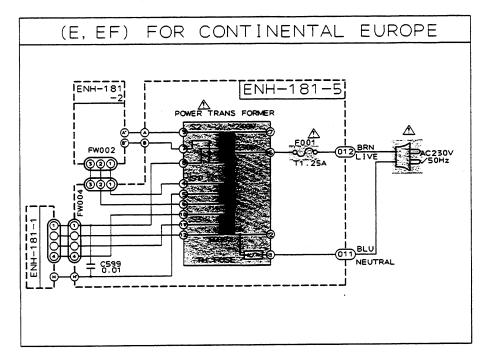


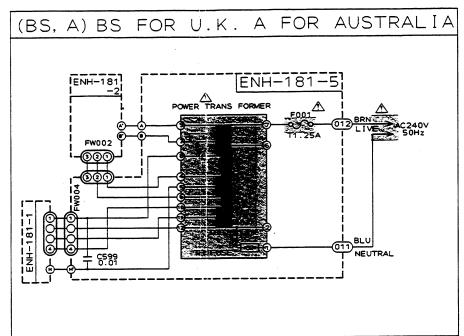
Printed Circuit Boards

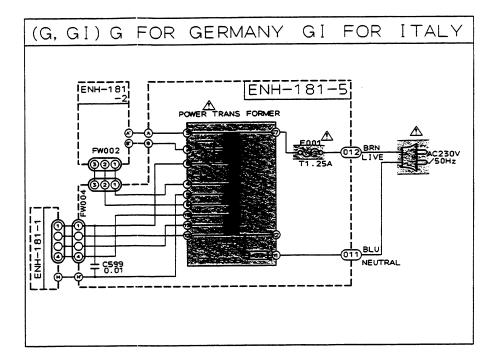
■ Front Amplifier & Power Primary P.C. Board (ENH-181)

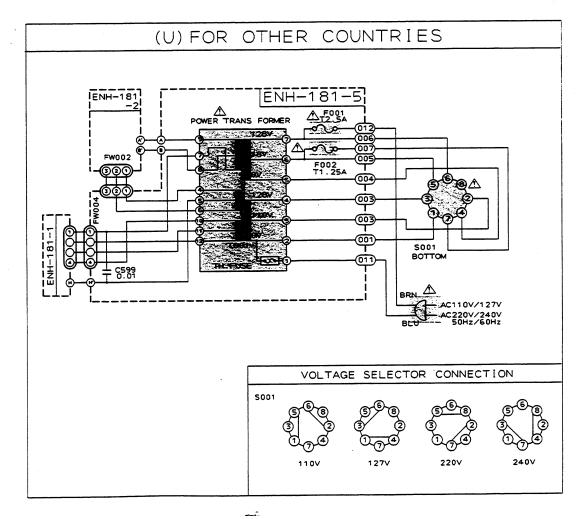


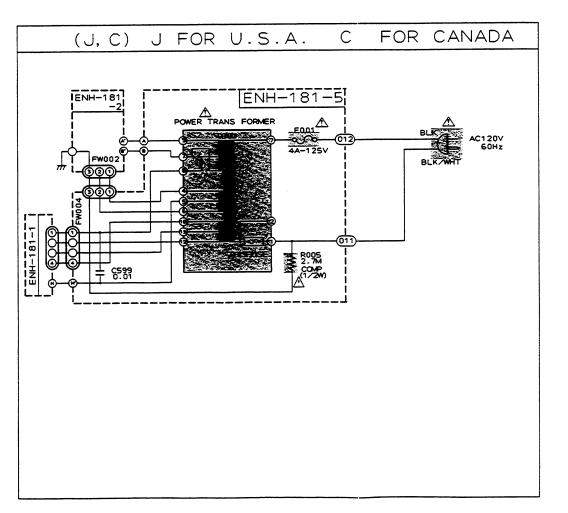
5. Power Primary Section



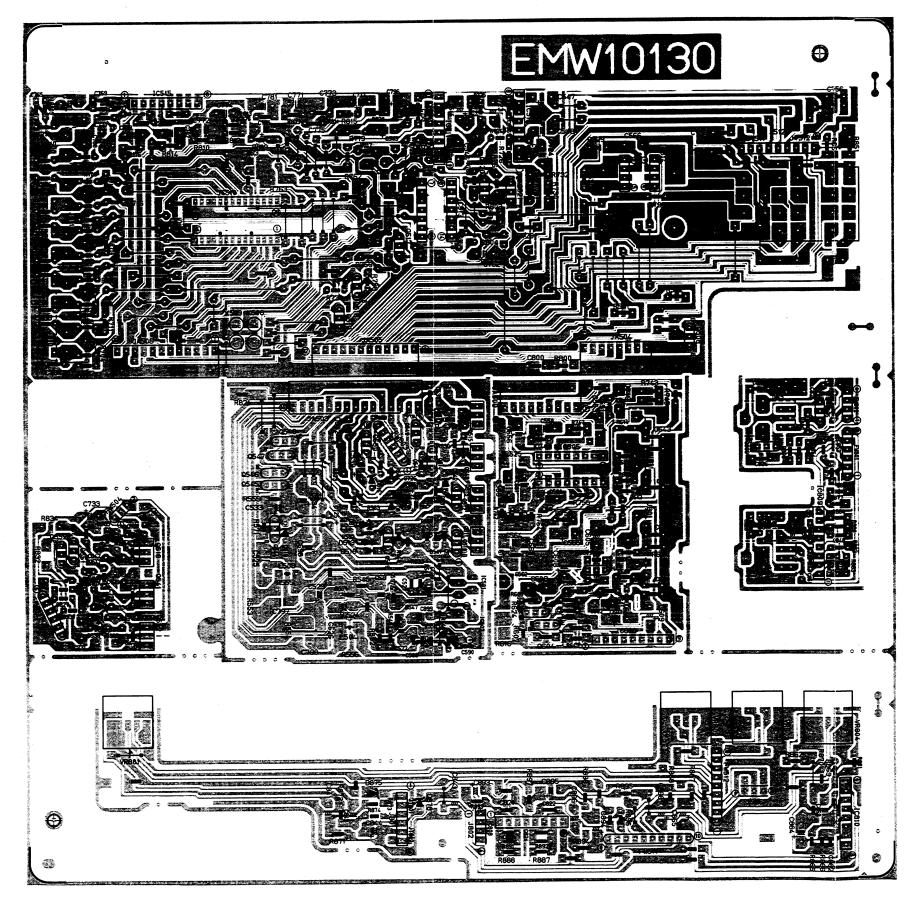




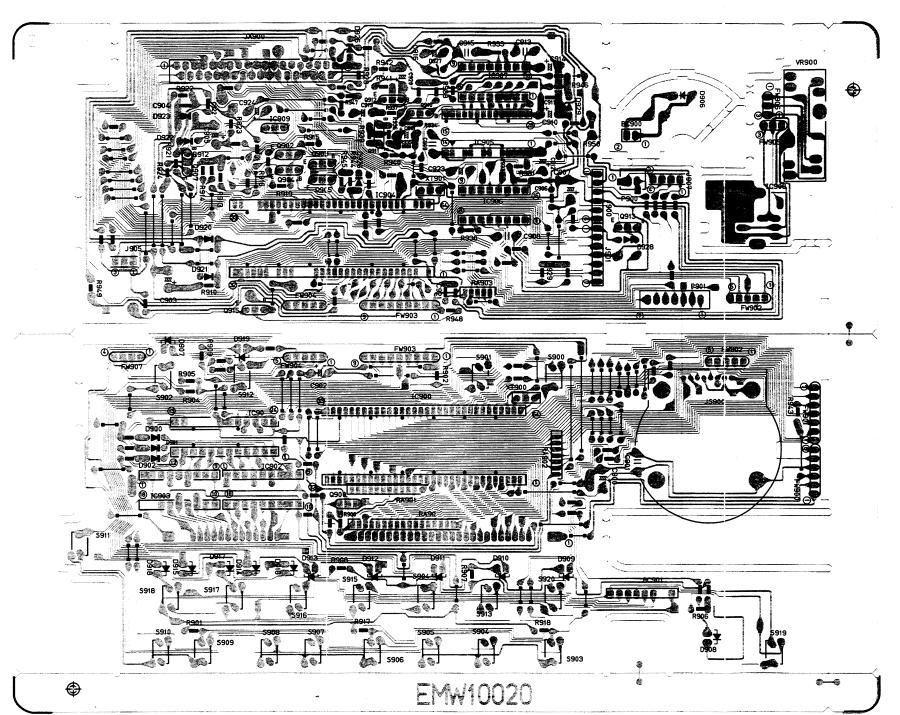




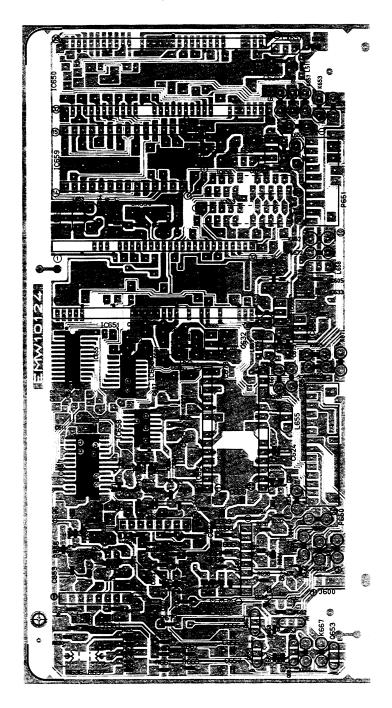
■ Rear Amplifer & Source Select P.C.Board (ENB-132)



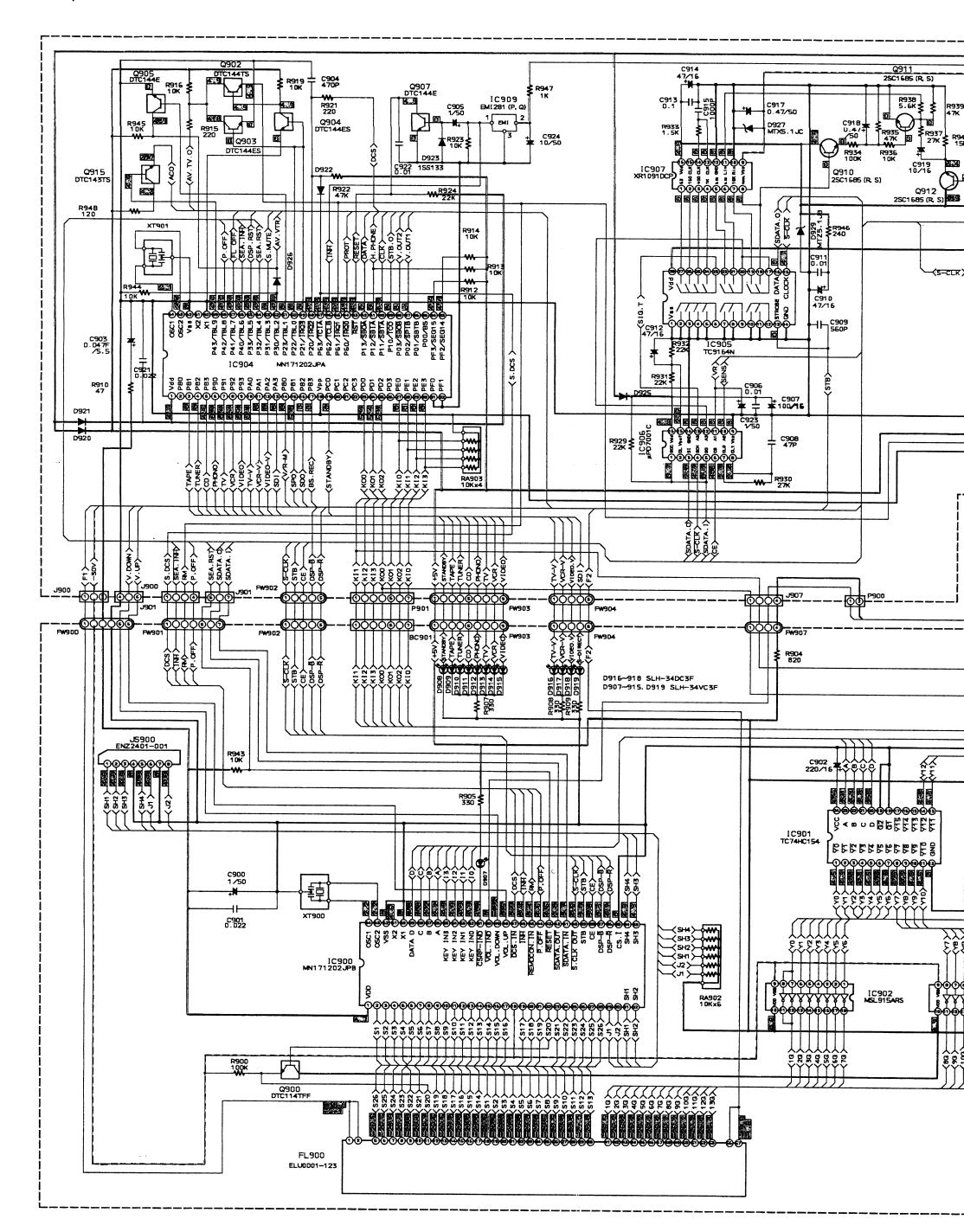
■ System & Fl Control P.C.Board (ENB-114)

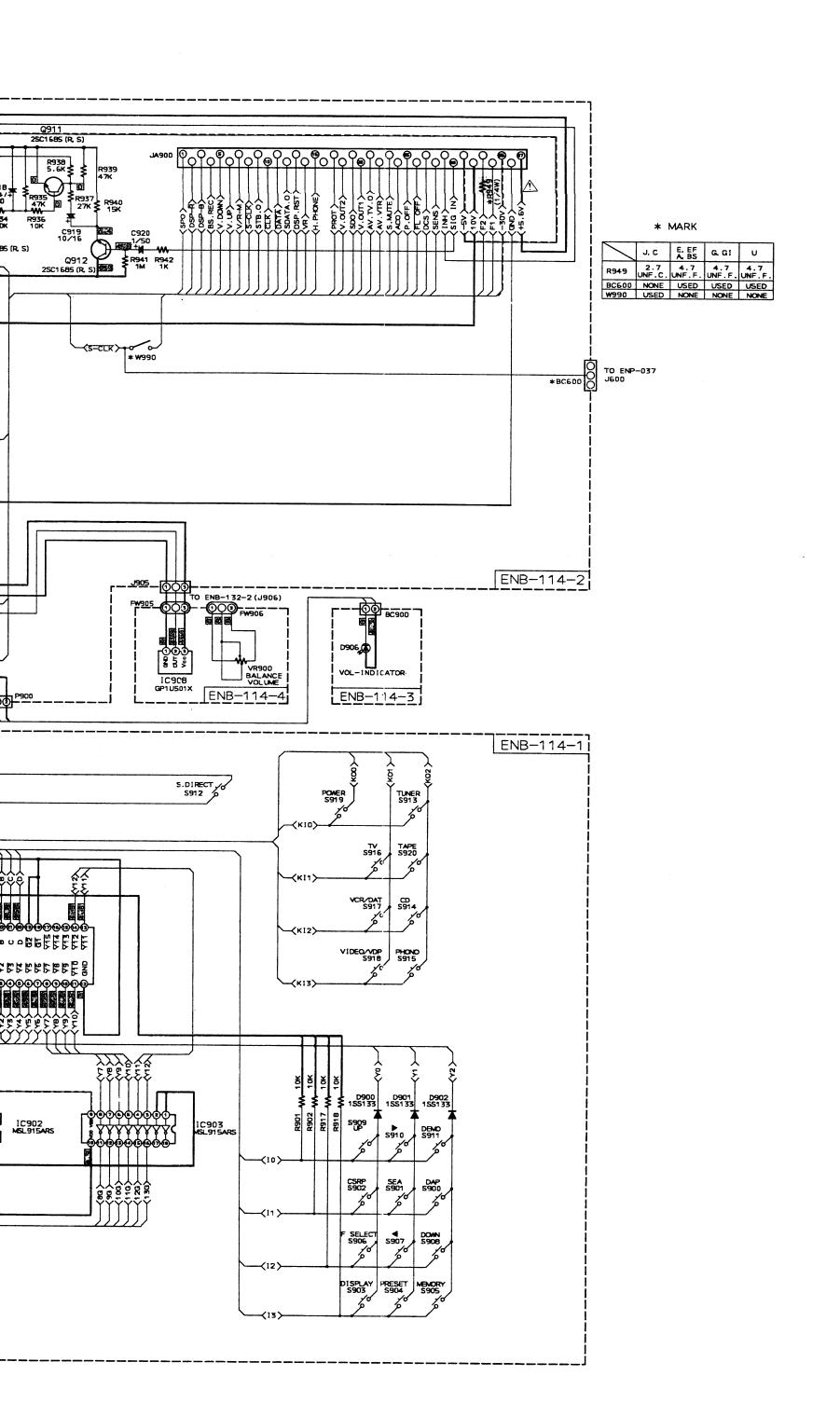


■ DAP P.C.Board (ENP-037)

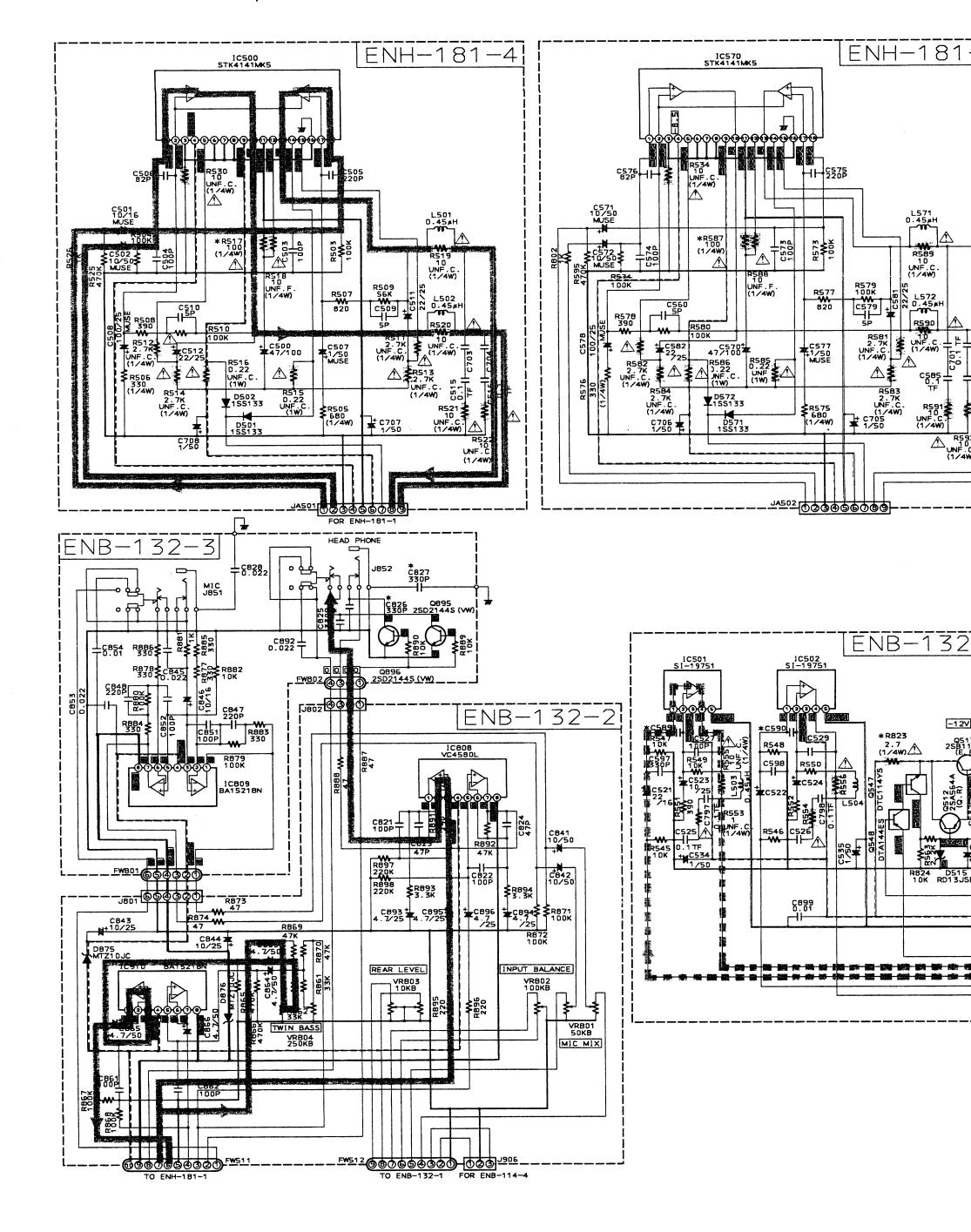


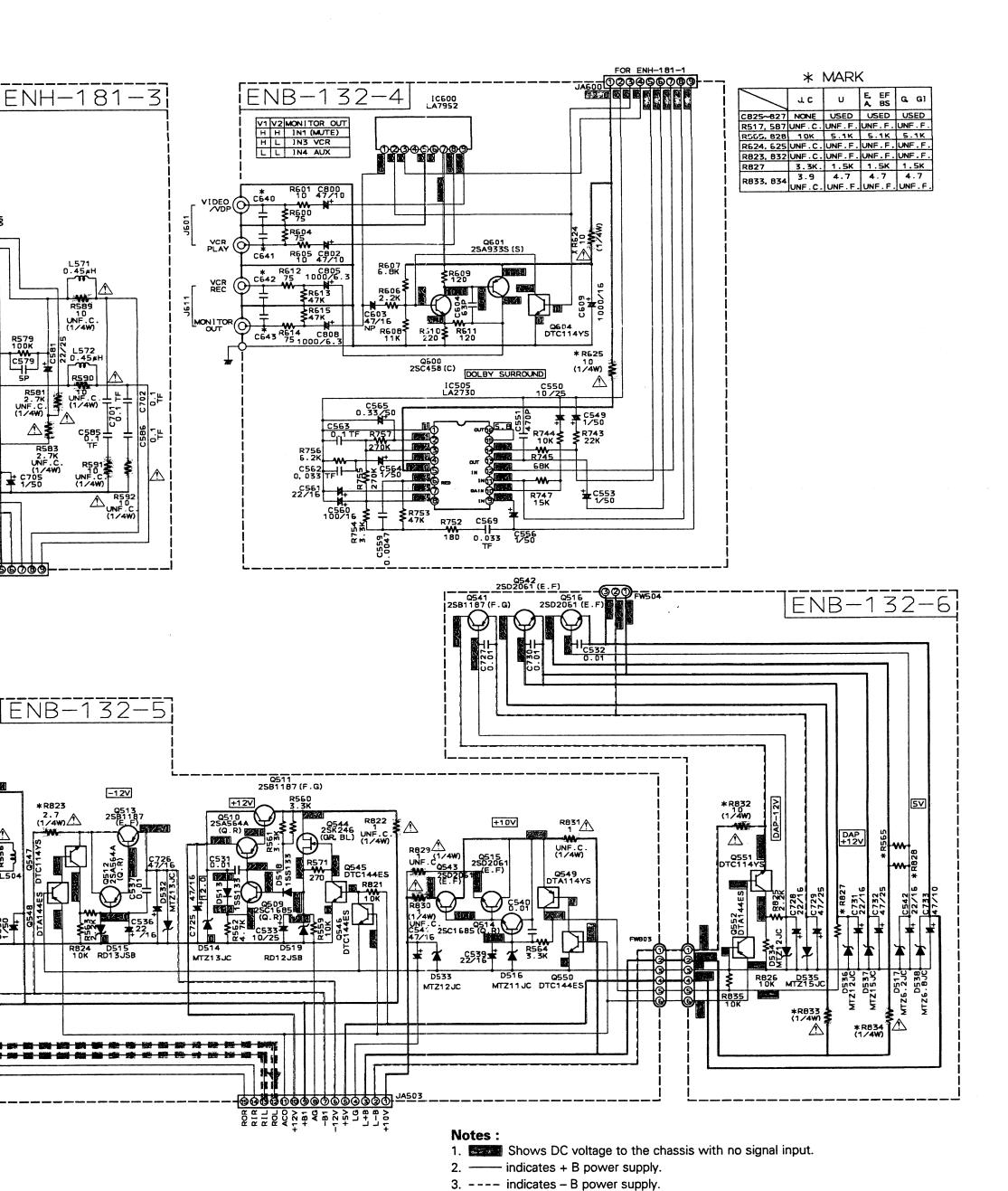
4. System Control & FL driver Section





3. TWIN BASS & Power Amplifier Section





indicates Front signal path.indicates Rear signal path.

7. This is the standard circuit diagram.

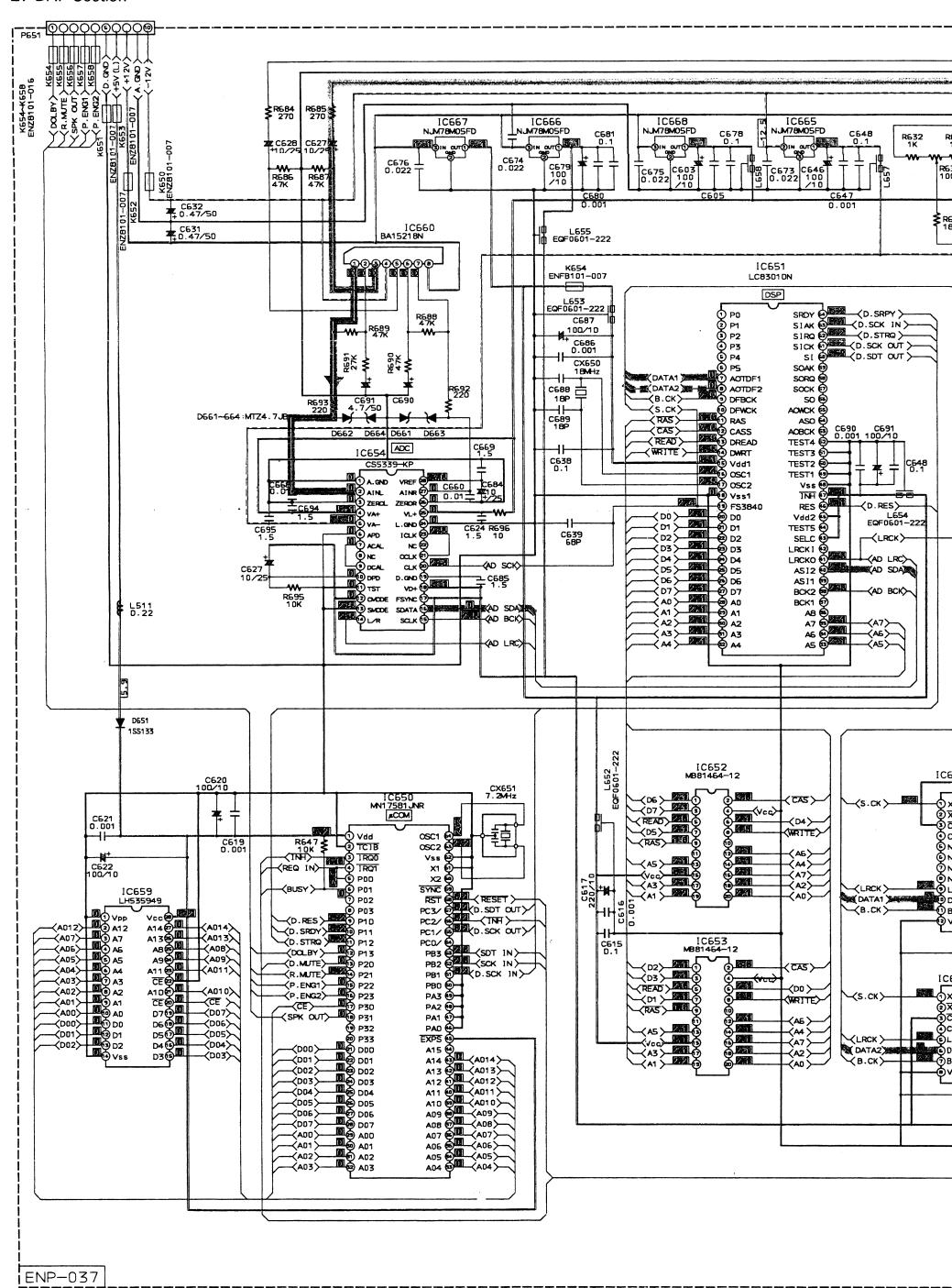
6. When replacing the parts in the darkned are () and those marked

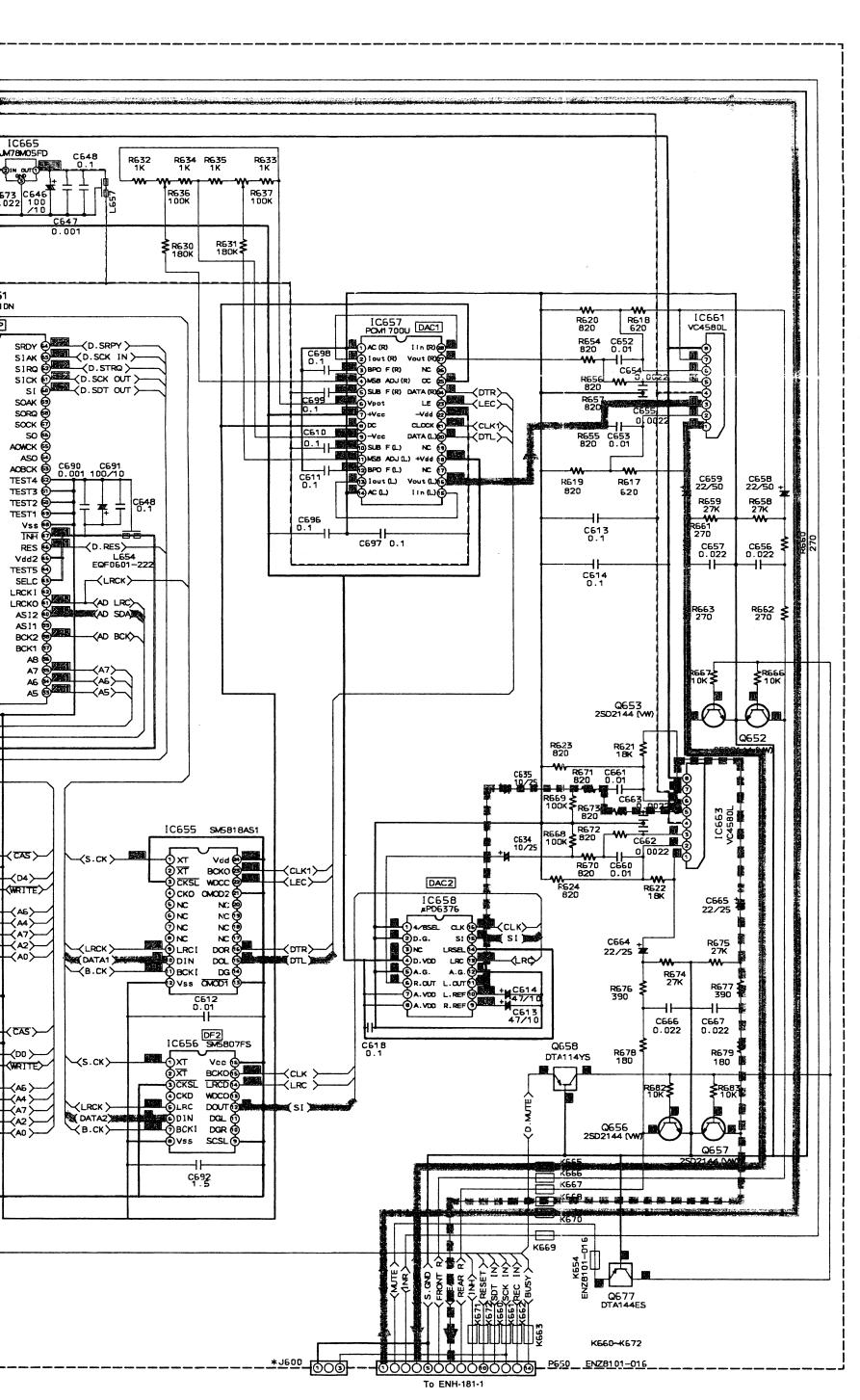
with $\underline{\wedge}\,$, be sure to use the designated parts to ensure safety.

The design and contents are subject to change without notice.

(No. 20269)

2. DAP Section



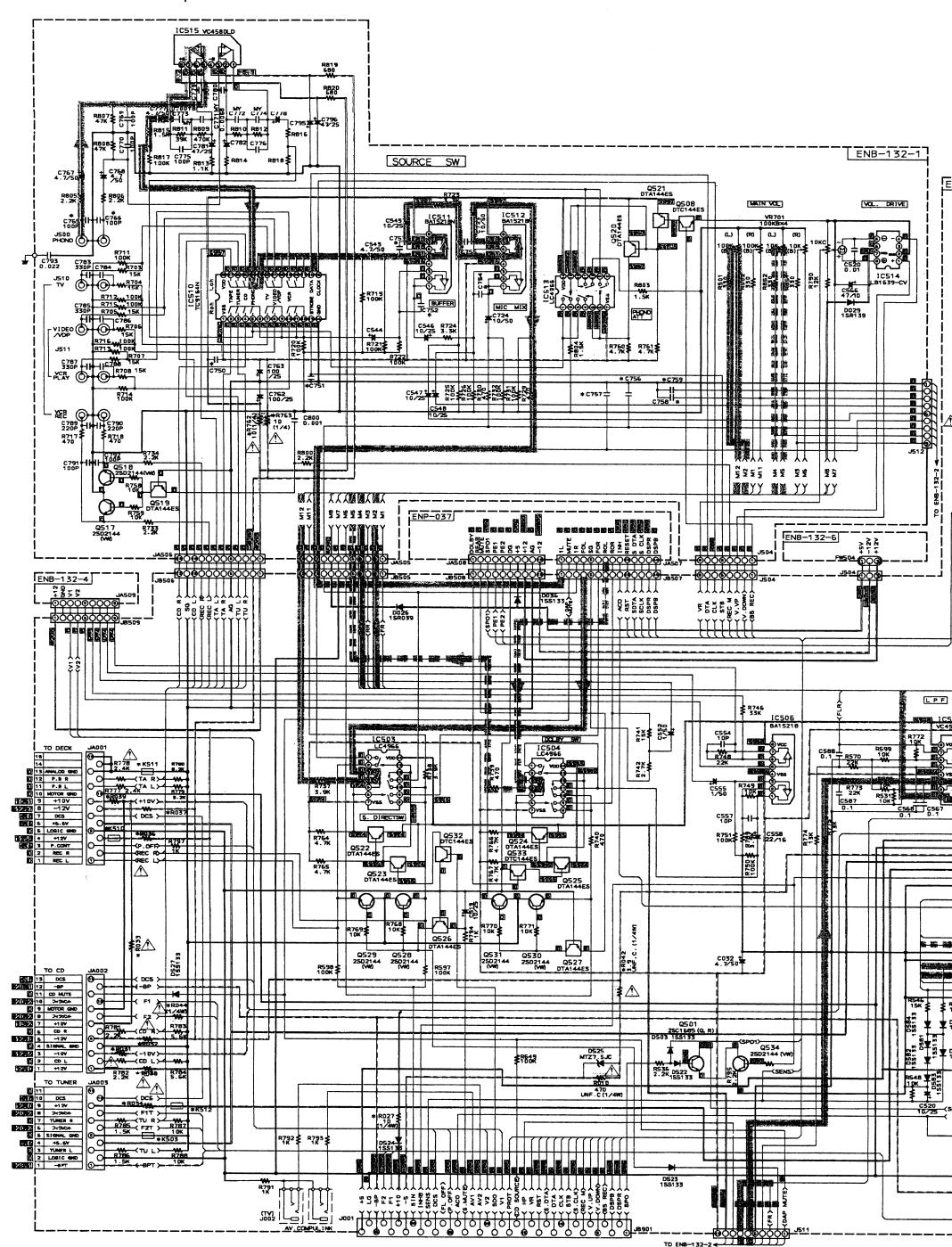


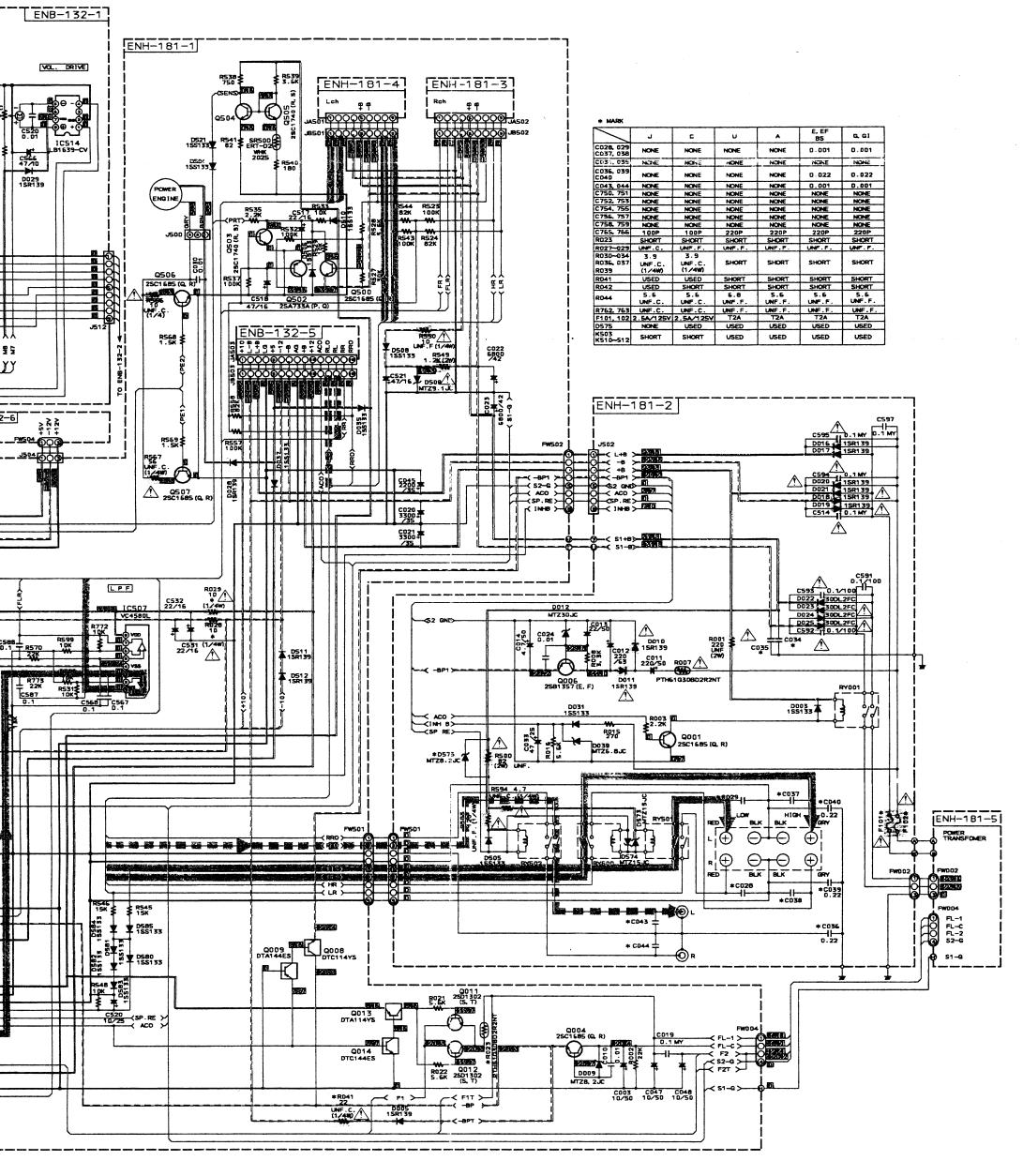
J. C E. EK G. G1 U

J600 NONE USED USED USED

Schematic Diagrams

1. Source Select & Speaker Terminal Section







VICTOR COMPANY OF JAPAN, LIMITED AUDIO PRODUCTS DIVISION, 1644, SHIMOTSURUMA, YAMATO-SHI, KANAGAWA-KEN, 242, JAPAN

